=> file medline FILE 'MEDLINE' ENTERED AT 16:38:41 ON 28 APR 2006

FILE LAST UPDATED: 27 APR 2006 (20060427/UP). FILE COVERS 1950 TO DATE.

On December 11, 2005, the 2006 MeSH terms were loaded.

The MEDLINE reload for 2006 is now (26 Feb.) available. For details on the 2006 reload, enter HELP RLOAD at an arrow prompt (=>). See also:

http://www.nlm.nih.gov/mesh/

http://www.nlm.nih.gov/pubs/techbull/nd04/nd04 mesh.html

http://www.nlm.nih.gov/pubs/techbull/nd05/nd05 med data changes.html

http://www.nlm.nih.gov/pubs/techbull/nd05/nd05_2006_MeSH.html

OLDMEDLINE is covered back to 1950.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2006 vocabulary.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que 127

L16	1164	SEA FILE=MEDLINE ABB=ON PLU=ON ("FUJII S"/AU OR "FUJII SEISHIRO"/AU)
L17	26	SEA FILE=MEDLINE ABB=ON PLU=ON ("DOTTO P"/AU OR "DOTTO PAOLO"/AU)
L18	200	SEA FILE=MEDLINE ABB=ON PLU=ON ("HAN R"/AU OR "HAN R C"/AU OR "HAN R F"/AU OR "HAN R J"/AU OR "HAN R K"/AU OR "HAN R L"/AU OR "HAN R N"/AU OR "HAN R O"/AU OR "HAN R S"/AU OR "HAN R X"/AU OR "HAN R Y"/AU OR "HAN R Z"/AU OR "HAN RONG"/AU OR "HAN RONG BIN"/AU)
L19	26	SEA FILE=MEDLINE ABB=ON PLU=ON ("BRISSETTE J"/AU OR "BRISSETT E J L"/AU OR "BRISSETTE JANICE L"/AU)
L20	2050	SEA FILE=MEDLINE ABB=ON PLU=ON RHO GTP-BINDING PROTEINS/CT
L21	171376	SEA FILE=MEDLINE ABB=ON PLU=ON SIGNAL TRANSDUCTION+NT/CT
L22	1597	SEA FILE=MEDLINE ABB=ON PLU=ON INTRACELLULAR SIGNALING
		PEPTIDES AND PROTEINS/CT
L23	27550	SEA FILE=MEDLINE ABB=ON PLU=ON (P21 OR P(2A)21 OR P21
		PROTEIN KINASE OR P21 SIGNAL TRANSDUCT?)
L24	2229	SEA FILE=MEDLINE ABB=ON PLU=ON SKIN AGING/CT
L26	2182	SEA FILE=MEDLINE ABB=ON PLU=ON (WRINKL? OR SKIN WRINKL? OR WRINK? REDUC?)
L27	0	SEA FILE=MEDLINE ABB=ON PLU=ON (L16 OR L17 OR L18 OR L19) AND (L20 OR L21 OR L22 OR L23) AND (L24 OR L26)

=> s 127

L103 0 (L16 OR L17 OR L18 OR L19) AND (L20 OR L21 OR L22 OR L23) AND (L24 OR L26)

=> file wpix

FILE 'WPIX' ENTERED AT 16:38:44 ON 28 APR 2006 COPYRIGHT (C) 2006 THE THOMSON CORPORATION

FILE LAST UPDATED: 26 APR 2006 <20060426/UP>
MOST RECENT DERWENT UPDATE: 200627 <200627/DW>
DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

>>> FOR A COPY OF THE DERWENT WORLD PATENTS INDEX STN USER GUIDE, PLEASE VISIT:

http://www.stn-international.de/training center/patents/stn guide.pdf <

>>> FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES, SEE http://scientific.thomson.com/support/patents/coverage/latestupdates/

>>> PLEASE BE AWARE OF THE NEW IPC REFORM IN 2006, SEE http://www.stn-international.de/stndatabases/details/ipc_reform.html and http://scientific.thomson.com/media/scpdf/ipcrdwpi.pdf <<<

>>> UPCOMING NEW DWPI: EFFECTS ON SCRIPT RUNS - SEE NEWS MESSAGE <<< 'BIX' IS DEFAULT SEARCH FIELD FOR 'WPIX' FILE

=> d que 185

L77	766	SEA FILE=WPIX ABB=ON PLU=ON ("FUJII S"/AU OR "FUJII S I C"/AU OR "FUJII S K"/AU OR "FUJII S N"/AU)
L78	3	SEA FILE=WPIX ABB=ON PLU=ON ("DOTTO G P"/AU OR "DOTTO P"/AU)
L79	118	SEA FILE=WPIX ABB=ON PLU=ON ("HAN R"/AU OR "HAN R A"/AU OR "HAN R G"/AU OR "HAN R H"/AU OR "HAN R J L"/AU OR "HAN R L"/AU OR "HAN R S"/AU OR "HAN R Y"/AU)
L80	6	SEA FILE=WPIX ABB=ON PLU=ON ("BRISSETTE J"/AU OR "BRISSETTE J E"/AU OR "BRISSETTE J W"/AU)
L81	16	SEA FILE=WPIX ABB=ON PLU=ON P21/BIX (L) SIGNAL TRANSDUCT?/BIX
L82	39	SEA FILE=WPIX ABB=ON PLU=ON P21/BIX (L) PROTEIN KINAS?/BIX
L83	951	SEA FILE=WPIX ABB=ON PLU=ON (P21/BIX OR P 21/BIX)
L84	22202	SEA FILE=WPIX ABB=ON PLU=ON (WRINKL?/BIX OR SKIN WRINKL?/BIX
		OR WRINK? REDUC?/BIX OR SKIN AGING/BIX OR SKIN AGEING/BIX OR PHOTO/BIX (L) (AGING/BIX OR AGEING/BIX))
L85	1	SEA FILE=WPIX ABB=ON PLU=ON (L77 OR L78 OR L79 OR L80) AND (L81 OR L82 OR L83) AND L84

=> s 185

L104 1 (L77 OR L78 OR L79 OR L80) AND (L81 OR L82 OR L83) AND L84

=> file biosis

FILE 'BIOSIS' ENTERED AT 16:38:48 ON 28 APR 2006 Copyright (c) 2006 The Thomson Corporation

FILE COVERS 1969 TO DATE. CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 26 April 2006 (20060426/ED)

=> d que 174

L65	225	SEA FILE=BIOSIS ABB=ON PLU=ON P21 PROTEIN/CT
L66	3066	SEA FILE=BIOSIS ABB=ON PLU=ON P21/CT
L67	4	SEA FILE=BIOSIS ABB=ON PLU=ON SKIN AGING/CT
L68	2118	SEA FILE=BIOSIS ABB=ON PLU=ON (SKIN OR PHOTO) (L) (AGING OR
		AGEING)
L69	2403	SEA FILE=BIOSIS ABB=ON PLU=ON (WRINKL? OR SKIN WRINKL? OR
		WRINK? REDUC?)
L70	1038	SEA FILE=BIOSIS ABB=ON PLU=ON ("FUJII S"/AU OR "FUJII S
		F"/AU OR "FUJII S I"/AU OR "FUJII S Y KURODA"/AU OR "FUJII
		SEISHIRO"/AU)
L71	68	SEA FILE=BIOSIS ABB=ON PLU=ON ("DOTTO P"/AU OR "DOTTO P
		A"/AU OR "DOTTO P G"/AU OR "DOTTO PAOLA"/AU OR "DOTTO PAOLO"/AU
		OR "DOTTO PAOLO D"/AU OR "DOTTO PAOLO G"/AU)
L72	141	SEA FILE=BIOSIS ABB=ON PLU=ON ("HAN R"/AU OR "HAN R C"/AU OR
		"HAN R F"/AU OR "HAN R I"/AU OR "HAN R J"/AU OR "HAN R J L"/AU
		OR "HAN R K"/AU OR "HAN R K W"/AU OR "HAN R M"/AU OR "HAN R
		N"/AU OR "HAN R N N"/AU OR "HAN R O"/AU OR "HAN R W"/AU OR
		"HAN R Y"/AU OR "HAN R Z"/AU OR "HAN RONG"/AU OR "HAN RONG
		LAN"/AU OR "HAN RONG RONG"/AU OR "HAN RONG ZHUANG"/AU)
L73	57	SEA FILE=BIOSIS ABB=ON PLU=ON ("BRISSETTE J"/AU OR "BRISSETTE
		J C"/AU OR "BRISSETTE J L"/AU OR "BRISSETTE JANICE"/AU OR
		"BRISSETTE JANICE L"/AU)
L74	0	SEA FILE=BIOSIS ABB=ON PLU=ON (L70 OR L71 OR L72 OR L73) AND
		(L65 OR L66) AND (L67 OR L68 OR L69)

=> s 174

L105 0 (L70 OR L71 OR L72 OR L73) AND (L65 OR L66) AND (L67 OR L68 OR L69)

=> file caplus

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FILE COVERS 1907 - 28 Apr 2006 VOL 144 ISS 19 FILE LAST UPDATED: 27 Apr 2006 (20060427/ED)

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http://www.cas.org/infopolicy.html

=> d que 115; d que 161

L1		SEA FILE=CAPLUS ABB=ON PLU=ON P21-ACTIVATED KINASE/CT
L2	0	SEA FILE=CAPLUS ABB=ON PLU=ON PROTEINS (L) P21/CT
L3	0	SEA FILE=CAPLUS ABB=ON PLU=ON PROTEINS (L) SIGNALING+OLD/CT
L4		SEA FILE=CAPLUS ABB=ON PLU=ON SIGNAL TRANSDUCTION/CT
L5	88152	SEA FILE=CAPLUS ABB=ON PLU=ON (P21 OR P(2A)21 OR P21 PROTEIN KINASE OR P21 SIGNAL TRANSDUCTION? OR P21?)
L7	11170	SEA FILE=CAPLUS ABB=ON PLU=ON (WRINKL? OR SKIN WRINKL? OR WRINK? REDUC?)
L8	25	SEA FILE=CAPLUS ABB=ON PLU=ON (L1 OR L2 OR L3 OR L4 OR L5) AND L7
L11	356	SEA FILE=CAPLUS ABB=ON PLU=ON ("FUJII S"/AU OR "FUJII
		SEISHIRO"/AU)
L12	13	SEA FILE=CAPLUS ABB=ON PLU=ON ("DOTTO P"/AU OR "DOTTO P DEL"/AU OR "DOTTO PAOLA"/AU OR "DOTTO PAOLO"/AU OR "DOTTO PAOLO DEL"/AU)
L13	154	SEA FILE=CAPLUS ABB=ON PLU=ON ("HAN R"/AU OR "HAN R D"/AU OR "HAN R F"/AU OR "HAN R J"/AU OR "HAN R K W"/AU OR "HAN R M"/AU OR "HAN R N N"/AU OR "HAN R P"/AU OR "HAN R Q"/AU OR "HAN R S"/AU OR "HAN R T"/AU OR "HAN R X"/AU OR "HAN R Y"/AU OR "HAN RONG"/AU OR "HAN RONG BI"/AU OR "HAN RONG BIN"/AU OR "HAN RONG
		DI"/AU OR "HAN RONG DIAN"/AU OR "HAN RONG JIANG"/AU OR "HAN RONG RONG"/AU)
L14	29	SEA FILE=CAPLUS ABB=ON PLU=ON ("BRISSETTE J"/AU OR "BRISSETTE JANICE"/AU OR "BRISSETTE JANICE L"/AU OR "BRISSETTE JANICE LYNN"/AU)
L15	1	SEA FILE=CAPLUS ABB=ON PLU=ON L8 AND (L11 OR L12 OR L13 OR L14)
L11	356	SEA FILE=CAPLUS ABB=ON PLU=ON ("FUJII S"/AU OR "FUJII SEISHIRO"/AU)
L12	13	SEA FILE=CAPLUS ABB=ON PLU=ON ("DOTTO P"/AU OR "DOTTO P DEL"/AU OR "DOTTO PAOLA"/AU OR "DOTTO PAOLO"/AU OR "DOTTO PAOLO DEL"/AU)
L13	154	SEA FILE=CAPLUS ABB=ON PLU=ON ("HAN R"/AU OR "HAN R D"/AU OR "HAN R F"/AU OR "HAN R J"/AU OR "HAN R K W"/AU OR "HAN R M"/AU OR "HAN R N N"/AU OR "HAN R P"/AU OR "HAN R Q"/AU OR "HAN R S"/AU OR "HAN R T"/AU OR "HAN R X"/AU OR "HAN R Y"/AU OR "HAN RONG"/AU OR "HAN RONG BI"/AU OR "HAN RONG BIN"/AU OR "HAN RONG DI"/AU OR "HAN RONG DIAN"/AU OR "HAN RONG JIANG"/AU OR "HAN RONG RONG"/AU)
L14	29	SEA FILE=CAPLUS ABB=ON PLU=ON ("BRISSETTE J"/AU OR "BRISSETTE JANICE"/AU OR "BRISSETTE JANICE L"/AU OR "BRISSETTE JANICE LYNN"/AU)
L56	8	SEA FILE=CAPLUS ABB=ON PLU=ON SKIN, DISEASE (L) AGING+OLD/CT
L57	n	SEA FILE=CAPLUS ABB=ON PLU=ON PHOTO AGING/CT
L58		SEA FILE=CAPLUS ABB=ON PLU=ON (SKIN OR PHOTO) (L) (AGING OR AGEING)
L61	6	SEA FILE=CAPLUS ABB=ON PLU=ON (L56 OR L57 OR L58) AND (L11 OR L12 OR L13 OR L14)

=> s 115,161

L106 6 (L15 OR L61)

=> file embase

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FILE COVERS 1974 TO 28 Apr 2006 (20060428/ED)

EMBASE has been reloaded. Enter HELP RLOAD for details.

EMBASE is now updated daily. SDI frequency remains weekly (default) and biweekly.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que 147

L39	106	SEA FILE=EMBASE ABB=ON PLU=ON P21 ACTIVATED KINASE?/CT
L40	1517	SEA FILE=EMBASE ABB=ON PLU=ON P21 (L) (PROTEIN KINAS? OR
		SIGNAL TRANSDUCT?)
L41	477	SEA FILE=EMBASE ABB=ON PLU=ON WRINKLE/CT
L42	2415	SEA FILE=EMBASE ABB=ON PLU=ON (WRINKL? OR SKIN WRINKL? OR
		WRINK? REDUC?)
L43	1239	SEA FILE=EMBASE ABB=ON PLU=ON ("FUJII S"/AU OR "FUJII S
		I"/AU OR "FUJII S K"/AU OR "FUJII S Y"/AU)
L44	45	SEA FILE=EMBASE ABB=ON PLU=ON ("DOTTO P"/AU OR "DOTTO P D
		F"/AU)
L45	206	SEA FILE=EMBASE ABB=ON PLU=ON ("HAN R"/AU OR "HAN R C"/AU OR
		"HAN R F"/AU OR "HAN R G"/AU OR "HAN R J"/AU OR "HAN R J L"/AU
		"HAN R F"/AU OR "HAN R G"/AU OR "HAN R J"/AU OR "HAN R J L"/AU OR "HAN R K"/AU OR "HAN R L"/AU OR "HAN R N"/AU OR "HAN R N
		OR "HAN R K"/AU OR "HAN R L"/AU OR "HAN R N"/AU OR "HAN R N
		OR "HAN R K"/AU OR "HAN R L"/AU OR "HAN R N"/AU OR "HAN R N N"/AU OR "HAN R O"/AU OR "HAN R S"/AU OR "HAN R T"/AU OR "HAN
L46	25	OR "HAN R K"/AU OR "HAN R L"/AU OR "HAN R N"/AU OR "HAN R N"/AU OR "HAN R O"/AU OR "HAN R S"/AU OR "HAN R T"/AU OR "HAN R W"/AU OR "HAN R Y H"/AU OR "HAN R Z"/AU OR
L46	25	OR "HAN R K"/AU OR "HAN R L"/AU OR "HAN R N"/AU OR "HAN R N N"/AU OR "HAN R O"/AU OR "HAN R S"/AU OR "HAN R T"/AU OR "HAN R W"/AU OR "HAN R Y H"/AU OR "HAN R Z"/AU OR "HAN RONG QIN"/AU)
L46 L47		OR "HAN R K"/AU OR "HAN R L"/AU OR "HAN R N"/AU OR "HAN R N N"/AU OR "HAN R O"/AU OR "HAN R S"/AU OR "HAN R T"/AU OR "HAN R W"/AU OR "HAN R Y"/AU OR "HAN R Y H"/AU OR "HAN R Z"/AU OR "HAN RONG QIN"/AU) SEA FILE=EMBASE ABB=ON PLU=ON ("BRISSETTE J"/AU OR "BRISSETTE

=> s 147

L107 0 (L43 OR L44 OR L45 OR L46) AND (L39 OR L40) AND (L41 OR L42)

=> file home

FILE 'HOME' ENTERED AT 16:38:55 ON 28 APR 2006

=> => dup rem 1103-1107 L103 HAS NO ANSWERS L105 HAS NO ANSWERS L107 HAS NO ANSWERS

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PROCESSING COMPLETED FOR L103
PROCESSING COMPLETED FOR L104
PROCESSING COMPLETED FOR L105
PROCESSING COMPLETED FOR L106

```
PROCESSING COMPLETED FOR L107
              6 DUP REM L103-L107 (1 DUPLICATE REMOVED)
T-108
                ANSWER '1' FROM FILE WPIX
                ANSWERS '2-6' FROM FILE CAPLUS
=> d all abs abeq tech 1;d ibib ed abs hitind 2-6
L108 ANSWER 1 OF 6 WPIX COPYRIGHT 2006 THE THOMSON CORP on STN DUPLICATE 1
AN
     2004-295301 [27]
                        WPIX
DNC
    C2004-112970
ΤI
     Screening of wrinkle-reducing agents useful for
     treating wrinkles involves determination of the test agent and
     correlating the ability of the test agent.
DC
     B04 D16 D21
     BRISSETTE, J; DOTTO, P; FUJII, S; HAN,
TN
     (BRIS-I) BRISSETTE J; (DOTT-I) DOTTO P; (FUJI-I) FUJII S; (HANR-I) HAN R;
PΑ
     (GEHO) GEN HOSPITAL CORP
CYC
                     A2 20040401 (200427)* EN
PΙ
     WO 2004026249
                                                20
                                                      A61K000-00
         W: CA JP
     US 2004110203
                     A1 20040610 (200438)
                                                      C12Q001-00
     JP 2006504932
                     W 20060209 (200612)
                                                      G01N033-50
ADT
    WO 2004026249 A2 WO 2003-US29496 20030919; US 2004110203 A1 Provisional US
     2002-412503P 20020920, US 2003-664795 20030919; JP 2006504932 W WO
     2003-US29496 20030919, JP 2004-538235 20030919
    JP 2006504932 W Based on WO 2004026249
PRAI US 2002-412503P
                          20020920; US 2003-664795
                                                         20030919
TC
     ICM A61K000-00; C12Q001-00; G01N033-50
     ICS A61K008-00; A61Q017-00; C12Q001-68; G01N033-15
     WO2004026249 A UPAB: 20040426
AB
     NOVELTY - Screening of wrinkles reducing agent
     involves determination of the test agent to increase or induces a
     component (C1) of the p21 signal transduction
     pathway and correlating the ability of the test agent to increase
     expression, activity or levels of (C1) with the agent's ability to reduce
     the appearance or formation of wrinkles.
          DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:
          (a) a cosmetic composition comprising an agent that increases or
     induces p21;
          (b) providing a record involves determination of the test agent to
     increase or induces p21;
          (c) generating the record that correlates the ability of the test
     agent; and
          (d) a kit comprises a composition comprising an agent that increases
     or induces (C1); and instructions for using the composition.
          ACTIVITY - Dermatological.
          MECHANISM OF ACTION - None given.
          USE - As a cosmetic for preventing or treating wrinkles,
     for reducing the appearance or formation of wrinkles on the skin
     (claimed) and in the manufacture of medicament for preventing skin damage
     e.q. UVB-induce skin damage.
          ADVANTAGE - The p21 signal transduction
     pathway prevents skin damage, reduces the appearance or formation of
     wrinkles on the skin and UVB-induce skin damage.
     Dwq.0/0
FS
    CPI
FA
    AB
     CPI: B04-E02F; B04-E05; B04-F0200E; B04-N0200E; B11-C08E1; B11-C08F2;
MC
          B11-C08F4; B11-C10; B12-K04E; B12-K04F; B14-N17C; B14-R05; D05-H08;
```

AT 16:51:47 ON 28 APR 2006 D QUE L97

L114 1 SEA ABB=ON PLU=ON L97

FILE 'HOME' ENTERED AT 16:51:52 ON 28 APR 2006

FILE 'STNGUIDE' ENTERED AT 16:52:02 ON 28 APR 2006

FILE 'MEDLINE, WPIX, BIOSIS, CAPLUS, USPATFULL, BIOTECHNO' ENTERED AT 16:52:54 ON 28 APR 2006

L115 13 DUP REM L109-L114 (0 DUPLICATES REMOVED)

REM BIOS BITT (O DOFBICATED REMOVED)

ANSWERS '1-5' FROM FILE MEDLINE

ANSWER '6' FROM FILE WPIX

ANSWERS '7-10' FROM FILE BIOSIS

ANSWER '11' FROM FILE CAPLUS

ANSWER '12' FROM FILE USPATFULL

ANSWER '13' FROM FILE BIOTECHNO

D IALL 1-5

D ALL ABS ABEQ TECH 6

D IALL 7-10

D IBIB ED ABS HITIND 11

D IALL 13

FILE 'USPATFULL' ENTERED AT 17:00:19 ON 28 APR 2006

FILE 'STNGUIDE' ENTERED AT 17:02:08 ON 28 APR 2006

FILE 'USPATFULL' ENTERED AT 17:04:31 ON 28 APR 2006

FILE 'USPATFULL' ENTERED AT 17:04:46 ON 28 APR 2006 D IBIB ABS HIT L100 TOT

=>

04/28/2006

OR L22 OR L23) AND (L24 OR L26)

FILE 'WPIX' ENTERED AT 16:38:44 ON 28 APR 2006

D QUE L85

L104 1 SEA ABB=ON PLU=ON (L77 OR L78 OR L79 OR L80) AND (L81 OR L82 OR L83) AND L84

FILE 'BIOSIS' ENTERED AT 16:38:48 ON 28 APR 2006

D OUE L74

L105 0 SEA ABB=ON PLU=ON (L70 OR L71 OR L72 OR L73) AND (L65 OR L66) AND (L67 OR L68 OR L69)

FILE 'CAPLUS' ENTERED AT 16:38:50 ON 28 APR 2006

D QUE L15

D QUE L61

L106 6 SEA ABB=ON PLU=ON (L15 OR L61)

FILE 'EMBASE' ENTERED AT 16:38:53 ON 28 APR 2006

D QUE L47

L107 0 SEA ABB=ON PLU=ON (L43 OR L44 OR L45 OR L46) AND (L39 OR L40) AND (L41 OR L42)

FILE 'HOME' ENTERED AT 16:38:55 ON 28 APR 2006

FILE 'STNGUIDE' ENTERED AT 16:39:02 ON 28 APR 2006

FILE 'WPIX, CAPLUS' ENTERED AT 16:40:56 ON 28 APR 2006

L108 6 DUP REM L103-L107 (1 DUPLICATE REMOVED)

ANSWER '1' FROM FILE WPIX ANSWERS '2-6' FROM FILE CAPLUS

D ALL ABS ABEQ TECH 1

D IBIB ED ABS HITIND 2-6

FILE 'MEDLINE' ENTERED AT 16:51:32 ON 28 APR 2006

D OUE L55

L109 5 SEA ABB=ON PLU=ON L55 NOT L27

FILE 'WPIX' ENTERED AT 16:51:35 ON 28 APR 2006

D QUE L86

L110 1 SEA ABB=ON PLU=ON L86 NOT L85

FILE 'BIOSIS' ENTERED AT 16:51:38 ON 28 APR 2006

D QUE L76

L111 4 SEA ABB=ON PLU=ON L76 NOT L74

FILE 'CAPLUS' ENTERED AT 16:51:41 ON 28 APR 2006

D QUE L38

D QUE L60

D QUE L88

D QUE L90

D QUE L101

D QUE L102

L112 1 SEA ABB=ON PLU=ON (L38 OR L60 OR L88 OR L90 OR L101 OR L102)
NOT (L15 OR L61)

FILE 'USPATFULL' ENTERED AT 16:51:44 ON 28 APR 2006

D OUE L100

L113 1 SEA ABB=ON PLU=ON L99 AND L98

FILE 'PASCAL, BIOTECHNO, ESBIOBASE, TOXCENTER, KOSMET, SCISEARCH' ENTERED

```
FILE FRFULL
                  FILE GBFULL
               2
                  FILE IFIPAT
                  FILE INPADOC
               2
                  FILE KOSMET
               3
               6
                  FILE MEDLINE
                  FILE NLDB
               3
                  FILE NUTRACEUT
               1
                  FILE PASCAL
                  FILE PATDPAFULL
               1
              73
                  FILE PCTFULL
               6
                  FILE PHIN
               7
                  FILE PROMT
               7
                  FILE SCISEARCH
               6
                  FILE TOXCENTER
             178
                  FILE USPATFULL
                  FILE USPAT2
              26
               3
                  FILE WPIDS
                 FILE WPINDEX
               QUE ABB=ON PLU=ON (P21 OR P 21) AND (WRINKL? OR PHOTOAG? OR
L91
                SKIN (2A) (AGING OR AGEING))
               _ _ _ _ _ _ _ _ _
               D RANK
     FILE 'PASCAL, BIOTECHNO, ESBIOBASE, TOXCENTER, KOSMET, SCISEARCH' ENTERED
     AT 16:19:35 ON 28 APR 2006
L92
          45765 SEA ABB=ON PLU=ON (P21 OR P 21)
L93
          14267 SEA ABB=ON PLU=ON (WRINKL? OR PHOTOAG? OR SKIN (2A) (AGING OR
               AGEING))
            30 SEA ABB=ON PLU=ON L92 AND L93
L94
L95
            11 DUP REM L94 (19 DUPLICATES REMOVED)
                    ANSWERS '1-4' FROM FILE PASCAL
                     ANSWERS '5-6' FROM FILE BIOTECHNO
                     ANSWER '7' FROM FILE ESBIOBASE
                     ANSWER '8' FROM FILE TOXCENTER
                     ANSWERS '9-11' FROM FILE KOSMET
                D SCAN
L96
              1 SEA ABB=ON PLU=ON L95 AND DRUG EFFECTS/CT
               D SCAN
L97
              1 SEA ABB=ON PLU=ON L95 AND DRUG EFFECT/CT
               D SCAN
     FILE 'USPATFULL' ENTERED AT 16:23:38 ON 28 APR 2006
L98
           612 SEA ABB=ON PLU=ON (P21 OR P 21)/TI,IT,AB,CLM
           5951 SEA ABB=ON PLU=ON (WRINKL? OR PHOTOAG? OR SKIN (2A) (AGING OR
L99
                AGEING))/TI,IT,AB,CLM
              1 SEA ABB=ON PLU=ON L99 AND L98
L100
               D SCAN
               D KWIC
     FILE 'CAPLUS' ENTERED AT 16:27:52 ON 28 APR 2006
L101
              2 SEA ABB=ON PLU=ON L8 AND (P21 OR P 21)
               D SCAN
                D TI L61 1-6
L102
              1 SEA ABB=ON PLU=ON L61 AND (P21 OR P 21)
     FILE 'MEDLINE' ENTERED AT 16:38:41 ON 28 APR 2006
               D QUE L27
L103
              O SEA ABB=ON PLU=ON (L16 OR L17 OR L18 OR L19) AND (L20 OR L21
```

```
E SIGNAL TRANSDUCTION/CT
                E PROTEIN/CT
            951 SEA ABB=ON PLU=ON (P21/BIX OR P 21/BIX)
L83
                E WRINKLES/CT
                E WRINKLE/CT
                E SKIN AGING/CT
          22202 SEA ABB=ON PLU=ON (WRINKL?/BIX OR SKIN WRINKL?/BIX OR WRINK?
L84
                REDUC?/BIX OR SKIN AGING/BIX OR SKIN AGEING/BIX OR PHOTO/BIX
                (L) (AGING/BIX OR AGEING/BIX))
```

1 SEA ABB=ON PLU=ON (L77 OR L78 OR L79 OR L80) AND (L81 OR L82 L85

OR L83) AND L84

D SCAN

2 SEA ABB=ON PLU=ON (L81 OR L82 OR L83) AND L84 L86

D SCAN

D BROWSE L85

FILE 'STNGUIDE' ENTERED AT 15:31:34 ON 28 APR 2006

FILE 'WPIX' ENTERED AT 15:44:39 ON 28 APR 2006

E A61K000/IPC

E A61K000-00C

E A61K000-00/IPC

E A61K000-00/ICM, ICS, ICA

L*** DEL 464 S E4

D HIT

FILE 'STNGUIDE' ENTERED AT 15:46:56 ON 28 APR 2006

FILE 'WPIX' ENTERED AT 15:55:13 ON 28 APR 2006 E AK1K008-00/ICM, ICS, ICA

FILE 'STNGUIDE' ENTERED AT 15:57:44 ON 28 APR 2006

FILE 'WPIX' ENTERED AT 16:00:21 ON 28 APR 2006

FILE 'CAPLUS' ENTERED AT 16:05:03 ON 28 APR 2006

D OUE L8

E SCREENING/CT

E E4+ALL

E E2+ALL

46461 SEA ABB=ON PLU=ON SCREENING/CW 0 SEA ABB=ON PLU=ON L87 AND L8 L87 L88

D SCAN TI L8

D QUE L8

L89 734780 SEA ABB=ON PLU=ON 9/SC,SX L90

O SEA ABB=ON PLU=ON L8 AND L89

INDEX '1MOBILITY, 2MOBILITY, ABI-INFORM, ADISCTI, AEROSPACE, AGRICOLA, ALUMINIUM, ANABSTR, ANTE, APOLLIT, AQUALINE, AQUASCI, AQUIRE, BABS, BIBLIODATA, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CEABA-VTB, CERAB, ...' ENTERED AT 16:12:22 ON 28 APR 2006

SEA (P21 OR P 21) AND (WRINKL? OR PHOTOAG? OR SKIN (2A) (AGING O

FILE BIOSIS 5

FILE BIOTECHNO

7 FILE CAPLUS

7 FILE EMBASE

25 FILE EPFULL

FILE ESBIOBASE

L64	0 SEA ABB=ON PLU=ON (L62 OR L49) AND (L43 OR L44 OR L45 OR L46)
	FILE 'BIOSIS' ENTERED AT 14:09:20 ON 28 APR 2006 E P21/CT
L65 L66	225 SEA ABB=ON PLU=ON P21 PROTEIN/CT 3066 SEA ABB=ON PLU=ON P21/CT
L67	E SKIN AGING/CT 4 SEA ABB=ON PLU=ON SKIN AGING/CT E PHOTO AGING/CT
L68	2118 SEA ABB=ON PLU=ON (SKIN OR PHOTO) (L) (AGING OR AGEING) E WRINKLE/CT
L69	2403 SEA ABB=ON PLU=ON (WRINKL? OR SKIN WRINKL? OR WRINK? REDUC?)
	FILE 'STNGUIDE' ENTERED AT 14:14:48 ON 28 APR 2006
	FILE 'BIOSIS' ENTERED AT 15:00:15 ON 28 APR 2006 E FUJII S/AU
L70	1038 SEA ABB=ON PLU=ON ("FUJII S"/AU OR "FUJII S F"/AU OR "FUJII S I"/AU OR "FUJII S Y KURODA"/AU OR "FUJII SEISHIRO"/AU) E DOTTO P/AU
L71	68 SEA ABB=ON PLU=ON ("DOTTO P"/AU OR "DOTTO P A"/AU OR "DOTTO P G"/AU OR "DOTTO PAOLA"/AU OR "DOTTO PAOLO"/AU OR "DOTTO PAOLO D"/AU OR "DOTTO PAOLO G"/AU) E HAN R/AU
L72	·
L73	57 SEA ABB=ON PLU=ON ("BRISSETTE J"/AU OR "BRISSETTE J C"/AU OR "BRISSETTE J L"/AU OR "BRISSETTE JANICE"/AU OR "BRISSETTE
L74	
L75	4 SEA ABB=ON PLU=ON (L65 OR L66) AND (L67 OR L68 OR L69) D SCAN
L76	4 SEA ABB=ON PLU=ON L75 AND (P21 OR P 21) D KWIC
	FILE 'WPIX' ENTERED AT 15:11:11 ON 28 APR 2006 E FUJII S/AU
L77	·
L78	3 SEA ABB=ON PLU=ON ("DOTTO G P"/AU OR "DOTTO P"/AU) E HAN R/AU
L79	118 SEA ABB=ON PLU=ON ("HAN R"/AU OR "HAN R A"/AU OR "HAN R G"/AU OR "HAN R H"/AU OR "HAN R J L"/AU OR "HAN R L"/AU OR "HAN R S"/AU OR "HAN R Y"/AU) E BRISSETTE J/AU
L80	6 SEA ABB=ON PLU=ON ("BRISSETTE J"/AU OR "BRISSETTE J E"/AU OR "BRISSETTE J W"/AU) E P21/CT

16 SEA ABB=ON PLU=ON P21/BIX (L) SIGNAL TRANSDUCT?/BIX 39 SEA ABB=ON PLU=ON P21/BIX (L) PROTEIN KINAS?/BIX

L81 L82

```
1239 SEA ABB=ON PLU=ON ("FUJII S"/AU OR "FUJII S I"/AU OR "FUJII
L43
                S K"/AU OR "FUJII S Y"/AU)
                E DOTTO P/AU
             45 SEA ABB=ON PLU=ON ("DOTTO P"/AU OR "DOTTO P D F"/AU)
L44
                E HAN R/AU
            206 SEA ABB=ON PLU=ON ("HAN R"/AU OR "HAN R C"/AU OR "HAN R
L45
                F"/AU OR "HAN R G"/AU OR "HAN R J"/AU OR "HAN R J L"/AU OR
                "HAN R K"/AU OR "HAN R L"/AU OR "HAN R N"/AU OR "HAN R N N"/AU
                OR "HAN R O"/AU OR "HAN R S"/AU OR "HAN R T"/AU OR "HAN R
                W"/AU OR "HAN R Y"/AU OR "HAN R Y H"/AU OR "HAN R Z"/AU OR
                "HAN RONG OIN"/AU)
                E BRISSETTE J/AU
             25 SEA ABB=ON PLU=ON ("BRISSETTE J"/AU OR "BRISSETTE J L"/AU OSEA ABB=ON PLU=ON (L43 OR L44 OR L45 OR L46) AND (L39 OR
                                     ("BRISSETTE J"/AU OR "BRISSETTE J L"/AU)
L46
L47
                L40) AND (L41 OR L42)
              O SEA ABB=ON PLU=ON (L39 OR L40) AND (L41 OR L42)
L48
L49
           2464 SEA ABB=ON PLU=ON
                                     (SKIN OR PHOTO) (L) (AGING OR AGEING)
L50
              O SEA ABB=ON PLU=ON L49 AND (L39 OR L40)
     FILE 'MEDLINE' ENTERED AT 13:58:06 ON 28 APR 2006
                E SKIN AGING/CT
                E E3+ALL
           2229 SEA ABB=ON PLU=ON SKIN AGING/CT
L51
                E PHOTO AGING/CT
           4153 SEA ABB=ON PLU=ON (SKIN OR PHOTO) (L) (AGING OR AGEING)
1.52
L53
             64 SEA ABB=ON
                            PLU=ON (L51 OR L52) AND (L20 OR L21 OR L22 OR
                L23)
             12 SEA ABB=ON PLU=ON L53 AND (P21 OR P 21)
1.54
                D TRIAL
                D KWIC
                D KWIC 2
                D TI 1-12
L55
              5 SEA ABB=ON PLU=ON L54 NOT PY>2002
                D KWIC
     FILE 'CAPLUS' ENTERED AT 14:01:58 ON 28 APR 2006
                E SKIN AGING/CT
                E E3+ALL
                E E2+ALL
              8 SEA ABB=ON PLU=ON SKIN, DISEASE (L) AGING+OLD/CT
L56
                E PHOTO AGING/CT
              O SEA ABB=ON PLU=ON PHOTO AGING/CT
L57
           5521 SEA ABB=ON
                            PLU=ON
L58
                                     (SKIN OR PHOTO) (L) (AGING OR AGEING)
                                     (L56 OR L57 OR L58) AND L7
            979 SEA ABB=ON
                            PLU=ON
L59
              1 SEA ABB=ON PLU=ON L59 AND (P21 OR P 21)
L60
                D SCAN
L61
              6 SEA ABB=ON PLU=ON (L56 OR L57 OR L58) AND (L11 OR L12 OR L13
                OR L14)
                D KWIC
                D TI 1-6
                D BIB
     FILE 'MEDLINE' ENTERED AT 14:05:56 ON 28 APR 2006
     FILE 'EMBASE' ENTERED AT 14:07:36 ON 28 APR 2006
                E SKIN AGING/CT
                E E3+ALL
                E E2+ALL
L62
            669 SEA ABB=ON PLU=ON CUTANEOUS PARAMETERS/CT
L63
              O SEA ABB=ON PLU=ON (L62 OR L49) AND (L39 OR L40)
```

```
E WRINKLE/CT
               E E5+ALL
               E E2+ALL
          2229 SEA ABB=ON PLU=ON SKIN AGING/CT
L24
               E WRINKLE/CT
               E SKIN WRINK/CT
               E E4+ALL
               E SKIN WRINK/CT
               E E5+ALL
               E PHOTOAGING/CT
               E E4+ALL
              0 SEA ABB=ON PLU=ON (L16 OR L17 OR L18 OR L19) AND (L20 OR L21
L25
               OR L22 OR L23) AND L24
L26
          2182 SEA ABB=ON PLU=ON (WRINKL? OR SKIN WRINKL? OR WRINK? REDUC?)
L27
             O SEA ABB=ON PLU=ON (L16 OR L17 OR L18 OR L19) AND (L20 OR L21
               OR L22 OR L23) AND (L24 OR L26)
L28
            51 SEA ABB=ON PLU=ON (L20 OR L21 OR L22 OR L23) AND (L24 OR
               L26)
L29
            30 SEA ABB=ON PLU=ON L28 NOT PY>2002
             O SEA ABB=ON PLU=ON L29 AND (P21 OR P 21)
L30
               D TRIAL L29
L31
             0 SEA ABB=ON PLU=ON L30 AND L23
           371 SEA ABB=ON PLU=ON P21 (L) SIGNAL TRANSDUCT?
L32
             O SEA ABB=ON PLU=ON L32 AND L28
L33
           924 SEA ABB=ON PLU=ON P21 (L) PROTEIN KINAS?
L34
L35
             O SEA ABB=ON PLU=ON L34 AND L28
L36
             O SEA ABB=ON PLU=ON (L32 OR L34) AND (L16 OR L17 OR L18 OR
               L19)
    FILE 'EMBASE' ENTERED AT 13:43:04 ON 28 APR 2006
    FILE 'CAPLUS' ENTERED AT 13:43:15 ON 28 APR 2006
L37
          1259 SEA ABB=ON PLU=ON P21 (L) (PROTEIN KINAS? OR SIGNAL TRANSDUCT
L38
             1 SEA ABB=ON PLU=ON L37 AND L7
               D SCAN
               D BIB
    FILE 'EMBASE' ENTERED AT 13:45:01 ON 28 APR 2006
               E P21/CT
L39
           106 SEA ABB=ON PLU=ON P21 ACTIVATED KINASE?/CT
L40
          1517 SEA ABB=ON PLU=ON P21 (L) (PROTEIN KINAS? OR SIGNAL TRANSDUCT
               E SIGNAL TRANSDUCT/CT
               E E4+ALL
               E SIGNAL TRANSDUCT/CT
               E WRINKLE/CT
               E E3+ALL
L41
           477 SEA ABB=ON PLU=ON WRINKLE/CT
               E WRINKLE/CT
               E E12+ALL
               E SKIN AGING/CT
               E E3+ALL
               E E2+ALL
               E SKIN WRINKL/CT
               E E4+ALL
L42
          2415 SEA ABB=ON PLU=ON (WRINKL? OR SKIN WRINKL? OR WRINK? REDUC?)
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E FUJII S/AU

L10		US' ENTERED AT 13:10:13 ON 28 APR 2006 SEA ABB=ON PLU=ON L8 NOT (PY>2002 OR AY>2002 OR PRY>2002) D TI 1-14 E PHOTOAGIN/CT E E5+ALL E FUJII S/AU
L11	356	SEA ABB=ON PLU=ON ("FUJII S"/AU OR "FUJII SEISHIRO"/AU) E DOTTO P/AU
L12	13	SEA ABB=ON PLU=ON ("DOTTO P"/AU OR "DOTTO P DEL"/AU OR "DOTTO PAOLA"/AU OR "DOTTO PAOLO"/AU OR "DOTTO PAOLO DEL"/AU) E HAN R/AU
L13	154	SEA ABB=ON PLU=ON ("HAN R"/AU OR "HAN R D"/AU OR "HAN R F"/AU OR "HAN R J"/AU OR "HAN R K W"/AU OR "HAN R M"/AU OR "HAN R N"/AU OR "HAN R P"/AU OR "HAN R Q"/AU OR "HAN R S"/AU OR "HAN R T"/AU OR "HAN R X"/AU OR "HAN R Y"/AU OR "HAN RONG"/AU OR "HAN RONG BI"/AU OR "HAN RONG BIN"/AU OR "HAN RONG DI"/AU OR "HAN RONG DIAN"/AU OR "HAN RONG JIANG"/AU OR "HAN RONG RONG"/AU) E BRISSETTE J/AU
L14		SEA ABB=ON PLU=ON ("BRISSETTE J"/AU OR "BRISSETTE JANICE"/AU OR "BRISSETTE JANICE L"/AU OR "BRISSETTE JANICE LYNN"/AU) SEA ABB=ON PLU=ON L8 AND (L11 OR L12 OR L13 OR L14)
L15	1	D SCAN L10
	FILE 'MEDL'	INE' ENTERED AT 13:25:44 ON 28 APR 2006 E FUJII S/AU
L16	1164	SEA ABB=ON PLU=ON ("FUJII S"/AU OR "FUJII SEISHIRO"/AU) E DOTTO P/AU
L17	26	SEA ABB=ON PLU=ON ("DOTTO P"/AU OR "DOTTO PAOLO"/AU) E HAN R/AU
L18	200	SEA ABB=ON PLU=ON ("HAN R"/AU OR "HAN R C"/AU OR "HAN R F"/AU OR "HAN R J"/AU OR "HAN R K"/AU OR "HAN R L"/AU OR "HAN R N"/AU OR "HAN R O"/AU OR "HAN R S"/AU OR "HAN R X"/AU OR "HAN R Y"/AU OR "HAN R Z"/AU OR "HAN RONG"/AU OR "HAN RONG BIN"/AU) E BRISSETTE J/AU
L19	26	SEA ABB=ON PLU=ON ("BRISSETTE J"/AU OR "BRISSETTE J L"/AU OR "BRISSETTE JANICE L"/AU) E P21/CT E E3+ALL E P21 (RHO) PROTEIN/CT E E3+ALL E E2+ALL
L20	2050	SEA ABB=ON PLU=ON RHO GTP-BINDING PROTEINS/CT E SIGNAL TRANSDUCTION/CT E E3+ALL
L21	171376	SEA ABB=ON PLU=ON SIGNAL TRANSDUCTION+NT/CT E SIGNAL TRANSDUCTION/CT E E5+ALL E SIGNAL TRANSDUCTION/CT E E7+ALL E PROTEINS (L) SIGNALING+OLD/CT E PROTEINS/CT E PROTEINS S/CT E PROTEINS S/CT E E95+ALL E E2+ALL
L22	1597	SEA ABB=ON PLU=ON INTRACELLULAR SIGNALING PEPTIDES AND PROTEINS/CT
L23	27550	SEA ABB=ON PLU=ON (P21 OR P(2A)21 OR P21 PROTEIN KINASE OR P21 SIGNAL TRANSDUCT?)

=> d his nofile (FILE 'HOME' ENTERED AT 12:45:45 ON 28 APR 2006) FILE 'CAPLUS' ENTERED AT 12:45:59 ON 28 APR 2006 E P21/CT E E3+ALL E E3+ALL E P21/CT E E8+ALL E P21-ACTIVATED KINASE 1/CT E E3+ALL L1658 SEA ABB=ON PLU=ON P21-ACTIVATED KINASE/CT E P21/CT E E3+ALL O SEA ABB=ON PLU=ON PROTEINS (L) P21/CT L2E SIGNAL TRANSDUCTION/CT E E4+ALL E SIGNAL TRANSDUCTION/CT E E5+ALL E E2+ALL L3 O SEA ABB=ON PLU=ON PROTEINS (L) SIGNALING+OLD/CT E SIGNAL TRANSDUCTION/CT E E6+ALL E SIGNAL TRANSDUCTION/CT E E9+ALL 142893 SEA ABB=ON PLU=ON SIGNAL TRANSDUCTION/CT L*** DEL 142893 S SIGNAL TRANSDUCTION, BIOLOGICAL/CT L*** DEL 0 S L5 NOT L4 88152 SEA ABB=ON PLU=ON (P21 OR P(2A)21 OR P21 PROTEIN KINASE OR L5 P21 SIGNAL TRANSDUCTION? OR P21?) E WRINKLE/CT E WRINKLES/CT E E1 E E3+ALL E E2+ALL O SEA ABB=ON PLU=ON COSMETICS (L) CREAMS, WRINKLE-PREVENTING/CT L6 E WRINKLES/CT E E2+ALL E E2+ALL E SKIN AGIN/CT E E4+ALL E E2+ALL E SKIN WRINKL/CT L7 11170 SEA ABB=ON PLU=ON (WRINKL? OR SKIN WRINKL? OR WRINK? REDUC?) 25 SEA ABB=ON PLU=ON (L1 OR L2 OR L3 OR L4 OR L5) AND L7 L8FILE 'STNGUIDE' ENTERED AT 13:01:54 ON 28 APR 2006 FILE 'CAPLUS' ENTERED AT 13:03:52 ON 28 APR 2006

FILE 'STNGUIDE' ENTERED AT 13:05:43 ON 28 APR 2006

D SCAN D KWIC D KWIC 2

2 SEA ABB=ON PLU=ON L8 AND (P(2A)21)

L9

- 20. A method of providing a record, the method comprising: providing a test agent; determining whether the test agent increases or induces p21; and generating a record that correlates the ability of the test agent to increase expression, activity or levels of p21 with the agent's ability to reduce the appearance or formation of wrinkles, thereby providing a record.
- 21. A method of providing wrinkle protection to a subject, said method comprising: supplying to the subject a composition that increases or induces a component of the a p21 signal transduction pathway; and supplying to the subject instructions for using said composition to prevent or reduce wrinkles.
- 22. The method of claim 20, wherein the component of the a p21 signal transduction pathway is p21.
- 25. A kit for preventing wrinkles in a subject, said kit comprising: a composition comprising an agent that increases or induces a component of the p21 signal transduction pathway; and instructions for using the composition to prevent wrinkles.
- 26. The kit of claim 25, wherein said component of the a p21 signal transduction pathway is p21.
- IT Skin, disease

(aging, wrinkles; methods and compns. for preventing skin damage)

IT Proteins

=>

(p21; methods and compns. for preventing skin damage)

04/28/2006

and/or reduce UVB-induced skin damage, e.g., wrinkles. The method includes identifying an agent that increases or induces the expression, activity or levels of a component of the p21 signal transduction pathway. Also included are methods and compositions for treating UVB-induced skin damage. What is claimed is:

CLM

- 1. A method of screening for an agent that reduces the appearance or formation of wrinkles, the method comprising: providing a test agent; determining whether the test agent increases or induces a component of the p21 signal transduction pathway; and correlating the ability of a test agent to increase expression, activity or levels of a component of the p21 signal transduction pathway with the agent's ability to reduce the appearance or formation of wrinkles, thereby screening for an agent that reduces the appearance or formation of wrinkles.
- 2. The method of claim 1, further comprising evaluating the effect of the agent on wrinkles on the skin of a subject.
- 3. The method of claim 1, further comprising selecting a test agent that increases expression, activity or levels of a component of the p21 signal transduction.
- 4. The method of claim 1, wherein the determining step comprises determining if the test agent increases or induces p21.
- 6. The method of claim 1, wherein the determining step comprises: (a) providing a cell, tissue or non-human subject comprising an exogenous nucleic acid comprising a regulatory region of a component of the p21 signal transduction pathway operably linked to a nucleotide sequence encoding a reporter polypeptide; and (b) evaluating the ability of the test agent to increase the activity of the reporter polypeptide in the cell, tissue or non-human subject, wherein the test agent is determined to increase or induce a component of the p21 signal transduction pathway if it increases the activity of the reporter polypeptide.
- 7. The method of claim 4, wherein the determining step comprises: (a) providing a cell, tissue or non-human subject comprising an exogenous nucleic acid comprising a p21 regulatory region operably linked to a nucleotide sequence encoding a reporter polypeptide; and (b) evaluating the ability of the test agent to increase the activity of the reporter polypeptide in the cell, tissue or non-human subject, wherein the test agent is determined to increase or induce p21 if it increases the activity of the reporter polypeptide.
- 11. The method of claim 2, wherein the effect of the agent on UVB-induced wrinkles is evaluated.
- 12. A method of preventing or treating wrinkles, the method comprising: (a) identifying a subject in need of prevention or treatment of wrinkles; and (b) administering to the subject an agent that increases or induces a component of the p21 signal transduction pathway.
- 14. The method of claim 12, wherein the component of the p21 signal transduction pathway is p21.
- 16. A cosmetic composition comprising an agent that increases or induces p21.

IT Interferons
RL: BIOL (Β. (α2-, general regulator)

RL: BIOL (Biological study) $(\alpha 2-$, gene for, of human, conformation wrinkle in

regulatory region of)

IT 9002-64-6 9002-72-6 66796-54-1

RL: PRP (Properties)

(gene for, of cattle and human, conformational wrinkle in

regulatory region of)

IT 9004-10-8, biological studies

RL: BIOL (Biological study)

(gene for, of dog, conformational wrinkle in regulatory

region of)

IT 9000-90-2

RL: PRP (Properties)

(gene for, of mouse, conformational wrinkle in regulatory

region of)

IT 74749-30-7

RL: PRP (Properties)

(gene for, of rat, conformational wrinkle in regulatory

region of)

=> d ibib abs hit 1100 tot

L100 ANSWER 1 OF 1 USPATFULL on STN

ACCESSION NUMBER: 2004:144539 USPATFULL

TITLE: Methods and compositions for preventing skin damage

INVENTOR(S): Fujii, Seishiro, Boston, MA, UNITED STATES
Dotto, Paolo, Boston, MA, UNITED STATES

Han, Rong, Boston, MA, UNITED STATES

Brissette, Janice, Charlestown, MA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2004110203 A1 20040610 APPLICATION INFO.: US 2003-664795 A1 20030919 (10)

NUMBER DATE

PRIORITY INFORMATION: US 2002-412503P 20020920 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: FISH & RICHARDSON PC, 225 FRANKLIN ST, BOSTON, MA,

02110

NUMBER OF CLAIMS: 28 EXEMPLARY CLAIM: 1 LINE COUNT: 649

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention features methods of screening for compounds that prevent and/or reduce UVB-induced skin damage, e.g., wrinkles. The

method includes identifying an agent that increases or induces the

ormandian activity of levels of a company of the 21

expression, activity or levels of a component of the p21

signal transduction pathway. Also included are methods and compositions for treating UVB-induced skin damage.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention features methods of screening for compounds that prevent

```
RL: PRP (Properties)
        (gene for, of rat, conformational wrinkle in regulatory
        region of)
     Ribonucleic acids, ribosomal
IT
     RL: BIOL (Biological study)
        (gene for, of Xenopus laevis, conformational wrinkle in
        regulatory region of)
IT
     Eukaryote
        (genes of, conformational wrinkle in regulatory region of)
     Gene and Genetic element, animal
TT
     RL: BIOL (Biological study)
        (of eukaryotes, conformational wrinkle in regulatory region
IT
     Conformation and Conformers
        (of wrinkle, in eukaryote gene regulatory region)
IT
     Histones
     RL: BIOL (Biological study)
        (H1, gene for, of sea urchin, conformational wrinkle in
        regulatory region of)
ΙT
     Histones
     RL: BIOL (Biological study)
        (H4, gene for, of sea urchin, conformational wrinkle in
        regulatory region of)
IT
     Metallothioneins
     RL: BIOL (Biological study)
        (II, gene for, of human, conformation wrinkle in regulatory
        region of)
IT
     Virus, animal
        (Moloney murine leukemia, genes of, conformational wrinkle in
        regulatory region of)
IT
     Proteins
     RL: BIOL (Biological study)
        (P21, gene for, of Harvey murine sarcoma virus,
        conformational wrinkle in regulatory region of)
     Ribonucleic acids
TΤ
     RL: BIOL (Biological study)
        (U1, gene for, of human, conformation wrinkle in regulatory
        region of)
IT
     Virus, animal
        (adeno-, genes of, conformational wrinkle in regulatory
        region of)
     Ribonucleic acids, transfer
IT
     RL: BIOL (Biological study)
        (aspartic acid-specific, gene for, of rat, conformational
        wrinkle in regulatory region of)
     Ribonucleic acids, transfer
IT
     RL: BIOL (Biological study)
        (glycine-specific, gene for, of rat, conformational wrinkle
        in regulatory region of)
TT
     Virus, animal
        (herpes simplex, genes of, conformational wrinkle in
        regulatory region of)
TΤ
     Proteins
     RL: BIOL (Biological study)
        (steroid-binding, gene for, of rat prostate, conformational
        wrinkle in regulatory region of)
     Gene and Genetic element, animal
IT
     RL: BIOL (Biological study)
        (Y, of chicken, conformational wrinkle in regulatory region
```

osteoporosis: bone disease

Osteoporosis (MeSH)

INDEX TERMS: Diseases

skin atrophy: intequmentary system disease

INDEX TERMS: Chemicals & Biochemicals

Brcal: full-length isoform; p21; p53

INDEX TERMS: Miscellaneous Descriptors

aging; body fat deposition; malignant transformation;

senescence; tumorigenesis

ORGANISM: Classifier

Muridae 86375

Super Taxa

Rodentia; Mammalia; Vertebrata; Chordata; Animalia

Organism Name

mouse (common): adult

Taxa Notes

Animals, Chordates, Mammals, Nonhuman Vertebrates,

Nonhuman Mammals, Rodents, Vertebrates

L115 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1985:608001 CAPLUS

DOCUMENT NUMBER:

103:208001

DOCUMENT NOMBER. 103.200001

TITLE: Structural wrinkles and the genomic

regulatory sites of eukaryotes

AUTHOR(S): Nussinov, Ruth

CORPORATE SOURCE: Lab. Mol. Genet., Natl. Inst. Child Health Hum. Dev.,

Bethesda, MD, 20205, USA

SOURCE: Journal of Molecular Evolution (1985), 22(2), 150-9

CODEN: JMEVAU; ISSN: 0022-2844

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 28 Dec 1985

AB Calcus. of DNA angular parameters in 50 eukaryotic sequences reveal

regions of large conformational deviations from ideal DNA around regulatory sites. Frequently, discrete peaks of structural variation are

present upstream of genes. Known regulatory regions often include

variants of consensus sequences. Thus, imprecise sequences and structures

are recognized within large genomic stretches. The existence of

structurally wrinkled regions in the vicinity of regulatory

sequences is likely to facilitate greatly their recognition by proteins

and enzymes.

CC 3-3 (Biochemical Genetics)

Section cross-reference(s): 6, 10, 12, 13

IT Immunoglobulins

RL: BIOL (Biological study)

(gene for κ chain of, of mouse, conformational wrinkle

in regulatory region of)

IT Keratins

Ovalbumins

RL: BIOL (Biological study)

(gene for, of chicken, conformational wrinkle in regulatory

region of)

IT Globulins

RL: BIOL (Biological study)

(gene for, of eukaryote, conformation wrinkle in regulatory

region of)

IT Actins

REGISTRY NUMBER: 9001-12-1 (matrix metalloproteinase-1)

60-40-2 (mecamylamine) 54-11-5 (nicotine)

260524-81-0 (GenBank-AB040450) 279212-93-0 (GenBank-AB043585) 136218-12-7 (GenBank-M37981) 384427-81-0 (GenBank-M64349) 140831-43-2 (GenBank-M83712) 384591-99-5 (GenBank-U13737) 171752-05-9 (GenBank-U40583)

174387-61-2 (GenBank-U48861) 391554-91-9 (GenBank-U62437)

L115 ANSWER 10 OF 13 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on

STN

ACCESSION NUMBER: 2003:88211 BIOSIS DOCUMENT NUMBER: PREV200300088211

TITLE: Senescence, aging, and malignant transformation mediated by

p53 in mice lacking the Brcal full-length isoform.

AUTHOR(S): Cao, Liu; Li, Wenmei; Kim, Sangsoo; Brodie, Steven G.;

Deng, Chu-Xia [Reprint Author]

CORPORATE SOURCE: Genetics of Development and Diseases Branch, National

Institutes of Diabetes and Digestive and Kidney Diseases, National Institutes of Health, Bethesda, MD, 20892, USA

chuxiad@bdq10.niddk.nih.qov

SOURCE: Genes & Development, (January 15 2003) Vol. 17, No. 2, pp.

201-213. print.

CODEN: GEDEEP. ISSN: 0890-9369.

DOCUMENT TYPE: Article LANGUAGE: English

ENTRY DATE: Entered STN: 12 Feb 2003

Last Updated on STN: 12 Feb 2003

ABSTRACT: Senescence may function as a two-edged sword that brings unexpected consequences to organisms. Here we provide evidence to support this theory by showing that the absence of the Brcal full-length isoform causes senescence in mutant embryos and cultured cells as well as aging and tumorigenesis in adult mice. Haploid loss of p53 overcame embryonic senescence but failed to prevent the adult mutant mice from prematurely aging, which included decreased life span, reduced body fat deposition, osteoporosis, skin atrophy, and decreased wound healing. We further demonstrate that mutant cells that escaped senescence had undergone clonal selection for faster proliferation and extensive genetic/molecular alterations, including overexpression of cyclin D1 and cyclin A and loss of p53. These observations provide the first in vivo evidence that links cell senescence to aging due to impaired function of Brca1 at the expense of tumorigenesis.

CONCEPT CODE: Biochemistry studies - General 10060

Biochemistry studies - Proteins, peptides and amino acids

10064

Bones, joints, fasciae, connective and adipose tissue -

Pathology 18006

Integumentary system - Pathology 18506

Neoplasms - Pathology, clinical aspects and systemic

effects 24004 Gerontology 24500

INDEX TERMS: Major Concepts

Aging; Biochemistry and Molecular Biophysics; Tumor

Biology

INDEX TERMS: Diseases

decreased wound healing: integumentary system disease

INDEX TERMS: Diseases

functioning, leading to changes in skin homeostasis. Using RT-PCR and Western blotting, we found that a 24-hour exposure of human DF to 10 muM Nic causes a 1.9- to 28-fold increase of the mRNA and protein levels of the cell cycle regulators p21, cyclin D1, Ki-67, and PCNA and a 1.7- to 2-fold increase of the apoptosis regulators Bcl-2 and caspase 3. Nic exposure also up-regulated expression of the dermal matrix proteins collagen type lalphal and elastin as well as matrix metalloproteinase-1. Mecamylamine (Mec), the specific antagonist of nAChRs, abolished Nic-induced alterations, indicating that they resulted from a pharmacologic stimulation of nAChRs expressed by DF. To establish the relevance of these findings to a specific nicotinergic pathway, we studied human DF transfected with anti-alpha3 antisense oligonucleotides and murine DF from alpha3 nAChR knockout mice. In both cases, lack of alpha3 was associated with alterations in fibroblast growth and function that were opposite to those observed in DF treated with Nic, suggesting that the nicotinic effects on DF were mostly mediated by alpha3 nAChR. In addition to alpha3, the nAChR subunits detected in human DF were alpha5, alpha7, beta2, and beta4. The exposure of DF to Nic altered the relative amounts of each of these subunits, leading to reciprocal changes in (3H) epibatidine-binding kinetics. Thus, some of the pathobiologic effects of tobacco products on extracellular matrix turnover in the skin may stem from Nic-induced alterations in the physiologic control of the unfolding of the genetically determined program of growth and the tissue remodeling function of DF as well as alterations in the structure and function of fibroblast nAChRs.

CONCEPT CODE: Cytology - Animal 02506

Biochemistry studies - General 10060

Biochemistry studies - Nucleic acids, purines and

pyrimidines 10062

Biochemistry studies - Proteins, peptides and amino acids

10064

Integumentary system - Physiology and biochemistry 18504

Toxicology - General and methods 22501

INDEX TERMS: Major Concepts

Toxicology

INDEX TERMS: Parts, Structures, & Systems of Organisms

dermal fibroblast: integumentary system; skin:

integumentary system

INDEX TERMS: Chemicals & Biochemicals

Ki-67; PCNA; [tritiated hydrogen]epibatidine; alpha-3
nicotinic acetylcholine receptor; anti-alpha-3 antisense
oligonucleotides; collagen type 1; cyclin D1; elastin;
matrix metalloproteinase-1; mecamylamine; nicotine:

toxicity; nicotinic acetylcholine receptors; p21

INDEX TERMS: Sequence Data

AB040450: GenBank, nucleotide sequence; AB043585: GenBank, nucleotide sequence; JO4038: nucleotide

sequence; M37981: GenBank, nucleotide sequence; M64349:

GenBank, nucleotide sequence; M83712: GenBank,

nucleotide sequence; NM-000088: nucleotide sequence; NM-000501: nucleotide sequence; NM-002421: nucleotide sequence; NM-138578: nucleotide sequence; U13737: GenBank, nucleotide sequence; U40583: GenBank, nucleotide sequence; U48861: GenBank, nucleotide sequence; U62437: GenBank, nucleotide sequence

INDEX TERMS: Methods & Equipment

RT-PCR: genetic techniques, laboratory techniques; Western blotting: genetic techniques, laboratory

techniques

INDEX TERMS: Miscellaneous Descriptors

tobacco products

Integumentary system - Physiology and biochemistry 18504

Integumentary system - Pathology 18506

INDEX TERMS: Major Concepts

Integumentary System (Chemical Coordination and

Homeostasis)

INDEX TERMS: Parts, Structures, & Systems of Organisms

epidermal cell: integumentary system

INDEX TERMS: Diseases

seborrheic keratosis: integumentary system disease,

pathology

Keratosis, Seborrheic (MeSH)

INDEX TERMS: Chemicals & Biochemicals

DNA; cyclin A: expression; cyclin D: expression; cyclin

E: expression; p16: expression; p21: expression

; p53: expression; retinoblastoma protein: expression;

telomerase-associated protein 1 [TP1]

INDEX TERMS: Miscellaneous Descriptors

DNA fragmentation; G-1 arrest; survival time

ORGANISM: Classifier

Hominidae 86215

Super Taxa

Primates; Mammalia; Vertebrata; Chordata; Animalia

Organism Name human (common)

Taxa Notes

Animals, Chordates, Humans, Mammals, Primates,

Vertebrates

L115 ANSWER 9 OF 13 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

ACCESSION NUMBER: 2003:141899 BIOSIS DOCUMENT NUMBER: PREV200300141899

TITLE: Central role of fibroblast alpha3 nicotinic acetylcholine

receptor in mediating cutaneous effects of nicotine.

AUTHOR(S): Arredondo, Juan; Hall, Leon L.; Ndoye, Assane; Nguyen, Vu

Thuong; Chernyavsky, Alexander I.; Bercovich, Dani; Orr-Urtreger, Avi; Beaudet, Arthur L.; Grando, Sergei A.

[Reprint Author]

CORPORATE SOURCE: Department of Dermatology, University of California Davis

Medical Center, 4860 Y Street, Suite 3400, Sacramento, CA,

95817, USA

sagrando@ucdavis.edu

SOURCE: Laboratory Investigation, (February 2003) Vol. 83, No. 2,

pp. 207-225. print.

CODEN: LAINAW. ISSN: 0023-6837.

DOCUMENT TYPE: Article LANGUAGE: English

OTHER SOURCE: GenBank-AB040450; GenBank-AB043585; GenBank-M37981;

GenBank-M64349; GenBank-M83712; GenBank-U13737; GenBank-U40583; GenBank-U48861; GenBank-U62437

ENTRY DATE: Entered STN: 19 Mar 2003

Last Updated on STN: 9 May 2003

ABSTRACT: Smoking is associated with aberrant cutaneous tissue remodeling, such as precocious **skin aging** and impaired wound healing. The mechanism is not fully understood. Dermal fibroblasts (DF) are the primary cellular component of the dermis and may provide a target for pathobiologic effects of tobacco products. The purpose of this study was to characterize a mechanism of nicotine (Nic) effects on the growth and tissue remodeling function of DF. We hypothesized that the effects of Nic on DF result from its binding to specific nicotinic acetylcholine receptors (nAChRs) expressed by these cells and that downstream signaling from the receptors alters normal cell

Taxa Notes

Animals, Chordates, Humans, Mammals, Primates,

Vertebrates

REGISTRY NUMBER: 9031-11-2 (beta-galactosidase)

9031-11-2 (EC 3.2.1.23) 7440-47-3 (chromium)

L115 ANSWER 8 OF 13 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

ACCESSION NUMBER: 2003:547465 BIOSIS DOCUMENT NUMBER: PREV200300549209

TITLE: Enhanced expression of p 6 in seborrhoeic keratosis; a

lesion of accumulated senescent epidermal cells in G1

arrest.

AUTHOR(S): Nakamura, S. [Reprint Author]; Nishioka, K.

CORPORATE SOURCE: Department of Environmental Immunodermatology, Tokyo

Medical and Dental University, Graduate School, Yushima

1-5-45, Bunkyoku, Tokyo, 113-8519, Japan

ruggle@mbk.sphere.ne.jp

SOURCE: British Journal of Dermatology, (September 2003) Vol. 149,

No. 3, pp. 560-565. print.

CODEN: BJDEAZ. ISSN: 0007-0963.

DOCUMENT TYPE: Article LANGUAGE: English

ENTRY DATE: Entered STN: 19 Nov 2003

Last Updated on STN: 19 Nov 2003

ABSTRACT: Background Seborrhoeic keratosis (SK) is a common skin

disease associated with skin ageing and photoageing, but

only limited studies have been performed on SK and the senescence of keratinocytes. Objectives We sought to clarify the genetic basis of SK and the senescence of keratinocytes. Methods Expression of p16, cyclins A, D and E, ***p21*** , p53, retinoblastoma (Rb) gene product and telomerase-associated protein 1 (TP1) in SK was examined by immunohistochemistry. DNA fragmentation in SK was detected by the terminal deoxynucleotidyl transferase-mediated deoxyuridine triphosphate-biotin nick end labelling method. We cultured keratinocytes from SK lesions and non-lesional epidermis and examined expression of p16, observed morphology of the cultured cells by light and electron microscopy and measured survival time. Results p16, a cyclin-dependent kinase inhibitor, was expressed in all cells from SK lesions, whereas normal keratinocytes expressed p16 only in the granular cells. factors such as cyclins A, D and E, p21, p53, Rb gene product, and TP1, were not expressed in SK cells. These results suggest that p1 6 expression is a marker of SK and that pl6 has a role in the pathogenesis of SK. DNA fragmentation was not detected in four of five SK tissue samples; one of the SK tissue samples showed DNA fragmentation only in the superficial upper layer of an SK lesion, suggesting that apoptosis was inhibited in SK cells. contrast, normal epidermis showed DNA fragmentation in the granular and squamous layers. Immunohistochemical examination of cultured SK cells also revealed the presence of pl6. A greater number of SK cells survived after 3 weeks of culture in comparison with normal keratinocytes. Features of senescence, such as a balloon-like appearance after lengthy culture and increased amounts of tonofilaments in cytoplasm, were observed in SK cells in culture. Conclusions These results suggest that SK is a benign neoplasm where keratinocytes in a senescent condition and G1 arrest are accumulated.

CONCEPT CODE: Cytology - Animal 02506

Cytology - Human 02508

Biochemistry studies - Nucleic acids, purines and

pyrimidines 10062

Biochemistry studies - Proteins, peptides and amino acids

10064

Pathology - General 12502

1079-1087. print.

ISSN: 0531-5565 (ISSN print).

DOCUMENT TYPE: LANGUAGE: Article English

ENTRY DATE:

Entered STN: 24 Nov 2004

Last Updated on STN: 24 Nov 2004

ABSTRACT:Heavy metals like CrVI, CdII, PbII and Still have many applications in industry. They also represent a group of labour pollutants, as they are involved in several physiological disorders, such as carcinogenesis and various tissue dysfunctions. However, limited knowledge exists regarding their effects ageing. In the current work we provide evidence that workers chronically exposed to CrVI have considerably reduced serum levels of the biomarker of senescence and cell survival, Apolipoprotein J/Clusterin (ApoJ/CLU). Moreover, we have found that both the degree and the time of exposure to CrVI associate negatively with ApoJ/CLU serum levels. To further examine whether CrVI directly affects cellular senescence we treated for 10 weeks two adult skin fibroblasts cultures as well as embryonic fibroblasts with a range of CrVI concentrations that approximate the values recorded in the blood circulation of exposed workers. Cellular treatment with a CrVI concentration that approximates the highest concentration in the blood was extremely toxic and nearly all cells died immediately after the first treatment. Interestingly, continuous treatment with a 10-fold lower CrVI concentration resulted in the induction of premature senescence. More specifically, treated cells were growth arrested, acquired an irregular shape, were positive to P-galactosidase staining, accumulated oxidized proteins and over-expressed the cyclin-dependent kinase inhibitor p21 and ApoJ/CLU. Similar treatments with three additional tabour pollutants resulted in the induction of premature senescence by CdII, but not by Still or PbII. In summary, our results indicate that exposure to CrVI induces alterations of senescence biomarkers both in vivo and in vitro. They also provide new valuable tools for monitoring CrVI cytotoxic effects in vivo as well as for re-evaluating the maximum permissive values of some labour pollutants, like CrVI and CdII. Copyright 2004 Elsevier Inc. All rights reserved.

CONCEPT CODE: Biochemistry studies - General 10060
Biochemistry studies - Minerals 10069

Enzymes - General and comparative studies: coenzymes

10802

Blood - Blood and lymph studies 15002

Blood - Blood cell studies 15004

Gerontology 24500

Public health - Occupational health 37013

INDEX TERMS: Major Concepts

Aging; Biochemistry and Molecular Biophysics; Occupational Health (Allied Medical Sciences)

INDEX TERMS: Parts, Structures, & Systems of Organisms

serum: blood and lymphatics

INDEX TERMS: Chemicals & Biochemicals

apolipoprotein J; beta-galactosidase [EC 3.2.1.23]; biomarkers; chromium; clusterin; cyclin-dependent kinase inhibitor; hazar metal; labour pollutants; 221

inhibitor; heavy metal; labour pollutants; p21

INDEX TERMS: Methods & Equipment

staining: laboratory techniques

INDEX TERMS: Miscellaneous Descriptors

aging; cell survival; cellular senescence

ORGANISM: Classifier

Hominidae 86215

Super Taxa

Primates; Mammalia; Vertebrata; Chordata; Animalia

Organism Name

human (common): adult, male

of environmental toxins including solar radiation comprising applying (C);

- (3) treating skin inflammatory conditions arising from stimuli such as exposure to allergies, solar radiation or skin infection comprising applying to cells (C);
 - (4) increasing cell mass comprises applying to cells (C); and
- (5) a pharmaceutical composition comprising (C) in combination with a pharmaceutically acceptable carrier.

ACTIVITY - Antiinflammatory; antiageing.

Acetyl-carnosine was shown to markedly delay the onset of senescence of cells by increasing the lifespan of MRC-5 cells in culture. This was confirmed by rejuvenation experiments. The morphology of cells grown in media supplemented with acetyl-carnosine was distinct from the controls. In control flasks cells were broad and flat with long processes extending to other cells. In fact some cells began to extend bipolar processes. Cells became very granular and debris accumulated in the medium. This morphology was typical of senescent cells. However, cells grown in media supplemented with acetyl-carnosine were long and spindle and gave an appearance of steaming. Cell growth showed confluency and cells acquired a phenotype typical of younger cells. To confirm this rejuvenation of senescent cells by acetyl-carnosine the expression of 3 known biomarkers used were p21, p27 and p16 and are all cyclin-dependent kinase inhibitors and are expressed at different stages of the cell cycle. In both cases non-senescent cultures show about a 30% of nuclei unstained while essentially all nuclei stain in senescent cultures. Once cells started to exhibit some degree of nuclei staining indicating senescence, old media was replaced with media supplemented with acetyl-carnosine, and after a few days, cells began to adopt a younger phenotype and there was no expression of p16 in the nucleus.

MECHANISM OF ACTION - None given.

USE - The novel method is used for altering the senescence of cells, and in the preparation of medicament for treating aging, degenerative-related diseases, slowing down aging of skin and skin inflammatory conditions (claimed).

ADVANTAGE - N-acetyl carnosine has superior anti-ageing properties than prior use of L-carnosine. Longevity growth curves showed that N-acetyl carnosine allowed more population doublings (PDs) than controls and significantly more PDs than carnosine itself. In addition, N-acetyl carnosine was found to be almost completely resistant to attack by human blood peptidases.

Dwg.0/0

TECH UPTX: 20020618

TECHNOLOGY FOCUS - BIOLOGY - Preferred Cells: The cells are human fibroblast cells, such as human fetal lung fibroblasts.

L115 ANSWER 7 OF 13 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

ACCESSION NUMBER: 2004:453400 BIOSIS DOCUMENT NUMBER: PREV200400452193

TITLE: Alterations of senescence biomarkers in human cells by

exposure to CrVI in vivo and in vitro.

AUTHOR(S): Katsiki, Magda; Trougakos, loarmis P.; Chondrogianni, Niki;

Alexopoulos, Evangelos C.; Makropoulos, Vassilis; Gonos,

Efstathios S. [Reprint Author]

CORPORATE SOURCE: Lab Mol and Cellular AgeingInst Biol Res and Biotechnol,

Natl Hellen Res Fdn, 48 Vas Constantinou Ave, Athens,

11635, Greece sgonos@eie.gr

SOURCE: Experimental Gerontology, (July 2004) Vol. 39, No. 7, pp.

which characterize **skin aging** including skin texture, changes in pigmentation or discoloration, disminution of immunoreactiveness, increased sensitivity to toxic and genotoxic effects of environmental toxins including solar radiation comprising applying (C);

- (3) treating skin inflammatory conditions arising from stimuli such as exposure to allergies, solar radiation or skin infection comprising applying to cells (C);
 - (4) increasing cell mass comprises applying to cells (C); and
- (5) a pharmaceutical composition comprising (C) in combination with a pharmaceutically acceptable carrier.

ACTIVITY - Antiinflammatory; antiageing.

Acetyl-carnosine was shown to markedly delay the onset of senescence of cells by increasing the lifespan of MRC-5 cells in culture. This was confirmed by rejuvenation experiments. The morphology of cells grown in media supplemented with acetyl-carnosine was distinct from the controls. In control flasks cells were broad and flat with long processes extending to other cells. In fact some cells began to extend bipolar processes. Cells became very granular and debris accumulated in the medium. This morphology was typical of senescent cells. However, cells grown in media supplemented with acetyl-carnosine were long and spindle and gave an appearance of steaming. Cell growth showed confluency and cells acquired a phenotype typical of younger cells. To confirm this rejuvenation of senescent cells by acetyl-carnosine the expression of 3 known biomarkers used were p21, p27 and p16 and are all cyclin-dependent kinase inhibitors and are expressed at different stages of the cell cycle. In both cases non-senescent cultures show about a 30% of nuclei unstained while essentially all nuclei stain in senescent cultures. Once cells started to exhibit some degree of nuclei staining indicating senescence, old media was replaced with media supplemented with acetyl-carnosine, and after a few days, cells began to adopt a younger phenotype and there was no expression of p16 in the nucleus.

MECHANISM OF ACTION - None given.

USE - The novel method is used for altering the senescence of cells, and in the preparation of medicament for treating aging, degenerative-related diseases, slowing down aging of skin and skin inflammatory conditions (claimed).

ADVANTAGE - N-acetyl carnosine has superior anti-ageing properties than prior use of L-carnosine. Longevity growth curves showed that N-acetyl carnosine allowed more population doublings (PDs) than controls and significantly more PDs than carnosine itself. In addition, N-acetyl carnosine was found to be almost completely resistant to attack by human blood peptidases.

Dwg.0/0

FS CPI

FA AB; DCN

MC CPI: B07-D09; B14-C03; B14-N17

AN 2002-352125 [38] WPIX

AB WO 200226940 A UPAB: 20020618

NOVELTY - Altering the senescence of cells, or a combination of delaying the onset, preventing or reversing the senescence of cells, comprising applying to cells a composition (C) that includes N-acetyl-carnosine as an active ingredient, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) treating aging or degenerative related diseases in a subject, comprises applying to cells (C);
- (2) slowing down aging of skin and the development of those features which characterize **skin aging** including skin texture, changes in pigmentation or discoloration, disminution of immunoreactiveness, increased sensitivity to toxic and genotoxic effects

in human fibroblasts. However, their inactivation may enhance the probability of spontaneous immortalization. CONTROLLED TERM: *Cell Aging: PH, physiology Cyclin-Dependent Kinase Inhibitor p21 *Cyclins: ME, metabolism Fibroblasts: ME, metabolism *Fibroblasts: PH, physiology

> Humans Li-Fraumeni Syndrome: ME, metabolism *Li-Fraumeni Syndrome: PA, pathology Research Support, U.S. Gov't, P.H.S.

Tumor Suppressor Protein p53: ME, metabolism

CHEMICAL NAME:

0 (CDKN1A protein, human); 0 (Cyclin-Dependent Kinase

Inhibitor p21); 0 (Cyclins); 0 (Tumor Suppressor

Protein p53)

L115 ANSWER 6 OF 13 WPIX COPYRIGHT 2006 THE THOMSON CORP on STN AN 2002-352125 [38] WPIX DNC C2002-100114 Altering the senescence of cells for treating aging, degenerative-related diseases or skin allergies, comprises application of a composition of N-acetyl-Carnosine. DC B04 IN GRIGG, G W; MALLOY, P; MOLLOY, P PΑ (BETA-N) BETA PEPTIDE FOUND PTY LTD; (CSIR) COMMONWEALTH SCI & IND RES ORG; (GRIG-I) GRIGG G W; (MOLL-I) MOLLOY P CYC 97 A1 20020404 (200238) * EN PΙ WO 2002026940 23 C12N005-06 RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW W: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PH PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW AU 2001093484 A 20020408 (200252) C12N005-06 EP 1328620 A1 20030723 (200350) EN C12N005-06 R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR A1 20040122 (200407) US 2004014814 A61K031-198 WO 2002026940 A1 WO 2001-AU1199 20010925; AU 2001093484 A AU 2001-93484 ADT 20010925; EP 1328620 A1 EP 2001-973818 20010925, WO 2001-AU1199 20010925; US 2004014814 A1 WO 2001-AU1199 20010925, US 2003-381057 20030728 FDT AU 2001093484 A Based on WO 2002026940; EP 1328620 A1 Based on WO 2002026940 20000926 PRAI AU 2000-382 ICM A61K031-198; C12N005-06 ICS A61K031-4172; A61P017-00; C12N005-08 AΒ WO 200226940 A UPAB: 20020618 NOVELTY - Altering the senescence of cells, or a combination of delaying

applying to cells a composition (C) that includes N-acetyl-carnosine as an active ingredient, is new.

the onset, preventing or reversing the senescence of cells, comprising

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) treating aging or degenerative related diseases in a subject, comprises applying to cells (C);
 - (2) slowing down aging of skin and the development of those features

CONTROLLED TERM: Actins: GE, genetics

*Actins: ME, metabolism

Adult

*Aging: ME, metabolism

Cells, Cultured

Cyclin-Dependent Kinase Inhibitor p21

Cyclins: GE, genetics
*Cyclins: ME, metabolism
Epidermis: CY, cytology
Epidermis: EM, embryology
Epidermis: ME, metabolism
Fetus: ME, metabolism
Fibroblasts: CY, cytology
Fibroblasts: ME, metabolism

Humans

Procollagen: GE, genetics
*Procollagen: ME, metabolism
RNA, Messenger: ME, metabolism
Research Support, Non-U.S. Gov't
Research Support, U.S. Gov't, P.H.S.

CHEMICAL NAME: 0 (Actins); 0 (CDKN1A protein, human); 0 (Cyclin-Dependent

Kinase Inhibitor p21); 0 (Cyclins); 0
(Procollagen); 0 (RNA, Messenger)

L115 ANSWER 5 OF 13 MEDLINE on STN ACCESSION NUMBER: 96438605 MEDLINE DOCUMENT NUMBER: PubMed ID: 8840965

TITLE: Expression of p21 is not required for senescence

of human fibroblasts.

AUTHOR: Medcalf A S; Klein-Szanto A J; Cristofalo V J

CORPORATE SOURCE: Center for Gerontological Research, Medical College of

Pennsylvania and Hahnemann University, Philadelphia 19129,

USA.

CONTRACT NUMBER: AG00131 (NIA)

AG00378 (NIA) AG00532 (NIA)

+

SOURCE: Cancer research, (1996 Oct 15) Vol. 56, No. 20, pp. 4582-5.

Journal code: 2984705R. ISSN: 0008-5472.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199611

ENTRY DATE: Entered STN: 19 Dec 1996

Last Updated on STN: 19 Dec 1996

Entered Medline: 4 Nov 1996

ABSTRACT:

Senescence and immortalization have been studied in **skin** fibroblasts derived from two individuals with the Li-Fraumeni syndrome. These cells inherit one wild-type and one mutant p53 allele and lose the former during culture. Despite this loss, cultures of Li-Fraumeni syndrome cells progressed normally from early passage to replicative senescence. Senescent cells also expressed barely detectable levels of **p21** mRNA, and, in marked contrast to normal cultured cells, levels of **p21** expression decreased during in vitro **aging.** Further maintenance for up to 10 months of post-mitotic cultures has led to the isolation of cells with an extended lifespan. Four potentially immortal cultures have continued to proliferate, and two have completed more than 110 population doublings. These results indicate that p53 and **p21** are not required for replicative senescence

Transcription Factors: ME, metabolism

Transcription, Genetic
*Tretinoin: PD, pharmacology

Ultraviolet Rays Up-Regulation

p38 Mitogen-Activated Protein Kinases

CAS REGISTRY NO.: 302-79-4 (Tretinoin)

CHEMICAL NAME: 0 (ATF2 protein, human); 0 (Activating Transcription Factor

2); 0 (Antineoplastic Agents); 0 (Cyclic AMP Response Element-Binding Protein); 0 (Nerve Tissue Proteins); 0 (Proto-Oncogene Proteins c-jun); 0 (Transcription Factor AP-1); 0 (Transcription Factors); EC 2.7.1.112 (Receptor, Epidermal Growth Factor); EC 2.7.1.123 (Ca(2+)-Calmodulin

Dependent Protein Kinase); EC 2.7.1.37 (JNK Mitogen-Activated Protein Kinases); EC 2.7.1.37 (Mitogen-Activated Protein Kinases); EC 2.7.1.37 (p38 Mitogen-Activated Protein Kinases); EC 3.6.5.2 (HRAS protein, human); EC 3.6.5.2 (Proto-Oncogene Proteins p21(ras))

L115 ANSWER 4 OF 13 MEDLINE on STN ACCESSION NUMBER: 97370256 MEDLINE DOCUMENT NUMBER: PubMed ID: 9226632

TITLE: Abundance of alpha 1(I) and alpha 1(III) procollagen and

p21 mRNAs in fibroblasts cultured from fetal and

postnatal dermis.

AUTHOR: Furth J J; Allen R G; Tresini M; Keogh B; Cristofalo V J

CORPORATE SOURCE: Center for Gerontological Research, Allegheny University of

The Health Sciences, Philadelphia, PA 19129-1191, USA.

CONTRACT NUMBER: AG 00378 (NIA)

AG 00523 (NIA) AG00131 (NIA)

SOURCE: Mechanisms of ageing and development, (1997 Aug) Vol. 97,

No. 2, pp. 131-42.

Journal code: 0347227. ISSN: 0047-6374.

PUB. COUNTRY: Ireland

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199709

ENTRY DATE: Entered STN: 22 Sep 1997

Last Updated on STN: 22 Sep 1997 Entered Medline: 11 Sep 1997

ABSTRACT:

The steady-state abundance of alpha 1(I) and alpha 1(III) procollagen mRNAs, p21Sdi1 mRNA, and beta-actin mRNA was determined in 29 skin fibroblast lines established from fetal, young and old donors. Donor ages ranged from 12 gestational weeks to nonagenarian. Adult donors were members of the Baltimore Longitudinal Study of Aging. The abundance of alpha 1(I) procollagen mRNA was decreased in cell lines from both young and old donors compared with fetal lines. Additionally, one alpha 1(I) transcript observed in the fetal lines was not detected in postnatal lines. The abundance of alpha 1(III) procollagen mRNA was decreased in postnatal lines from old donors compared with fetal lines. The abundance of beta-actin mRNA was lower in postnatal lines from both young and old donors compared to fetal lines. These results suggest that cultures of fetal skin fibroblasts exhibit a greater capacity for synthesis of procollagens and beta-actin than postnatal In contrast, the abundance of p21Sdi1 mRNA was elevated in lines established from postnatal donors. These results are consistent with developmental changes in amounts of procollagen, beta-actin and p21.

Entered Medline: 23 Apr 1998

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ABSTRACT:
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Human skin is exposed daily to solar ultraviolet (UV) radiation. UV induces the matrix metalloproteinases collagenase, 92-kD gelatinase, and stromelysin, which degrade skin connective tissue and may contribute to premature skin aging (photoaging). Pretreatment of ***skin*** with all-trans retinoic acid (tRA) inhibits UV induction of matrix metalloproteinases. We investigated upstream signal transduction pathways and the mechanism of tRA inhibition of UV induction of matrix metalloproteinases in human skin in vivo. Exposure of human skin in vivo to low doses of UV activated EGF receptors, the GTP-binding regulatory protein p21Ras, and stimulated mitogen-activated protein (MAP) kinases, extracellular signal-regulated kinase (ERK), c-Jun amino-terminal kinase (JNK), and p38. Both JNK and p38 phosphorylated, and thereby activated transcription factors c-Jun and activating transcription factor 2 (ATF-2), which bound to the c-Jun promoter and upregulated c-Jun gene expression. Elevated c-Jun, in association with constitutively expressed c-Fos, formed increased levels of transcription factor activator protein (AP) 1, which is required for transcription of matrix metalloproteinases. Pretreatment of human skin with tRA inhibited UV induction of c-Jun protein and, consequently, AP-1. c-Jun protein inhibition occurred via a posttranscriptional mechanism, since tRA did not inhibit UV induction of c-Jun mRNA. These data demonstrate, for the first time, activation of MAP kinase pathways in humans in vivo, and reveal a novel posttranscriptional mechanism by which tRA antagonizes UV activation of AP-1 by inhibiting c-Jun protein induction. Inhibition of c-Jun induction likely contributes to the previously reported prevention by tRA of UV induction of AP-1-regulated matrix-degrading metalloproteinases in human skin. CONTROLLED TERM:

Activating Transcription Factor 2 *Antineoplastic Agents: PD, pharmacology Ca(2+)-Calmodulin Dependent Protein Kinase: ME, metabolism Ca(2+)-Calmodulin Dependent Protein Kinase: PD, pharmacology Ca(2+)-Calmodulin Dependent Protein Kinase: RE, radiation Cyclic AMP Response Element-Binding Protein: ME, metabolism Gene Expression Humans JNK Mitogen-Activated Protein Kinases Mitogen-Activated Protein Kinases: ME, metabolism Mitogen-Activated Protein Kinases: PD, pharmacology Mitogen-Activated Protein Kinases: RE, radiation effects Nerve Tissue Proteins: ME, metabolism Nerve Tissue Proteins: PD, pharmacology Nerve Tissue Proteins: RE, radiation effects Promoter Regions (Genetics) *Proto-Oncogene Proteins c-jun: GE, genetics *Proto-Oncogene Proteins c-jun: ME, metabolism Proto-Oncogene Proteins p21(ras): ME, metabolism Proto-Oncogene Proteins p21(ras): PD, pharmacology Proto-Oncogene Proteins p21(ras): RE, radiation effects Receptor, Epidermal Growth Factor: ME, metabolism Receptor, Epidermal Growth Factor: RE, radiation effects Research Support, Non-U.S. Gov't Signal Transduction: GE, genetics *Skin: DE, drug effects Skin: ME, metabolism *Skin: RE, radiation effects

Saloni Sharma 04/28/2006

Transcription Factor AP-1: ME, metabolism

the irradiated keratinocytes was 75% at 24 h post-irradiation. Various cytokeratins and transcription factors were up-regulated within 1 h post-irradiation. After 6 h, expression of a variety of genes related to growth regulation (e.g. p21(WAF1), notch 4, and smoothened), apoptosis (e.g. caspase 10, hTRIP, and CRAF1), DNA repair (ERCC1, XRCC1), cytokines (e.g. IL-6, IL-13, TGF-beta, and endothelin 2), and cell adhesion (e.g. RhoE, and RhoGDI) were altered in human keratinocytes. These data suggest the changes in a cascade of gene expression in human keratinocytes occurring within 24 h after UVB exposure. Although the roles of these cellular genes after UVB-irradiation remain to be elucidated, microarray analysis may provide a new view of gene expression in epidermal keratinocytes following UVB exposure.

CONTROLLED TERM: Apoptosis

Cell Survival: RE, radiation effects Cell Transformation, Neoplastic

Cytokines: GE, genetics

DNA Repair

DNA, Complementary

Dose-Response Relationship, Radiation

Endothelins: GE, genetics

*Gene Expression Regulation: RE, radiation effects

Growth Substances: GE, genetics

Humans

Keratin: GE, genetics Keratinocytes: CY, cytology Keratinocytes: PH, physiology

*Keratinocytes: RE, radiation effects
Oligonucleotide Array Sequence Analysis

RNA, Messenger: GE, genetics Research Support, Non-U.S. Gov't Transcription Factors: GE, genetics

Transcription, Genetic: RE, radiation effects

*Ultraviolet Rays

CAS REGISTRY NO.: 68238-35-7 (Keratin)

CHEMICAL NAME: 0 (Cytokines); 0 (DNA, Complementary); 0 (Endothelins); 0

(Growth Substances); 0 (RNA, Messenger); 0 (Transcription

Factors)

L115 ANSWER 3 OF 13 MEDLINE on STN ACCESSION NUMBER: 1998171532 MEDLINE DOCUMENT NUMBER: PubMed ID: 9502786

TITLE: Retinoic acid inhibits induction of c-Jun protein by

ultraviolet radiation that occurs subsequent to activation of mitogen-activated protein kinase pathways in human skin

in vivo.

AUTHOR: Fisher G J; Talwar H S; Lin J; Lin P; McPhillips F; Wang Z;

Li X; Wan Y; Kang S; Voorhees J J

CORPORATE SOURCE: Department of Dermatology, University of Michigan Medical

School, Ann Arbor, Michigan 48109-0609, USA...

dianemch@umich.edu

SOURCE: The Journal of clinical investigation, (1998 Mar 15) Vol.

101, No. 6, pp. 1432-40.

Journal code: 7802877. ISSN: 0021-9738.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals

ENTRY MONTH: 199804

ENTRY DATE: Entered STN: 30 Apr 1998

Last Updated on STN: 15 Oct 2002

genotoxic insults into growth arrest and apoptotic signaling pathways that ultimately determine cell fate. As a result of its complex interactions with cell cycle machinery and response to mutagenic agents, p21(WAF1) also has stage-specific roles in epithelial carcinogenesis. Finally, a view is emerging of p21(WAF1) as not merely a cyclin-dependent kinase inhibitor, but also as a direct participant in regulating genes involved in growth arrest, senescence, and aging, thus providing an additional layer of control over matters of the cell cycle. This review discusses these various roles played by p21(WAF1) in cell cycle control, and attempts to relate these to epithelial cell biology, with special emphasis on keratinocytes.

CONTROLLED TERM: Apoptosis: PH, physiology

Cell Cycle: PH, physiology Cell Division: PH, physiology

Cyclin-Dependent Kinase Inhibitor p21

*Cyclin-Dependent Kinases: AI, antagonists & inhibitors

Cyclins: GE, genetics *Cyclins: PH, physiology

*Enzyme Inhibitors: PD, pharmacology Epithelial Cells: PH, physiology

Gene Expression Regulation

Humans

Keratinocytes: PH, physiology Mouth Mucosa: CY, cytology Mutagens: PD, pharmacology Neoplasms: PA, pathology

Skin: CY, cytology

CHEMICAL NAME: 0 (CDKN1A protein, human); 0 (Cyclin-Dependent Kinase

Inhibitor **p21**); 0 (Cyclins); 0 (Enzyme

Inhibitors); 0 (Mutagens); EC 2.7.1.37 (Cyclin-Dependent

Kinases)

L115 ANSWER 2 OF 13 MEDLINE ON STN
ACCESSION NUMBER: 2001490518 MEDLINE
DOCUMENT NUMBER: PubMed ID: 11532376

DOCUMENT NOMBER. PUBMEC 1D. 11332376

TITLE: Expression profiling of cancer-related genes in human

keratinocytes following non-lethal ultraviolet B

irradiation.

AUTHOR: Murakami T; Fujimoto M; Ohtsuki M; Nakagawa H

CORPORATE SOURCE: Department of Dermatology, Jichi Medical School, 3311-1

Yakushiji, Minamikawachi-machi, Kawachi-gun, Tochigi

329-0498, Japan.. takmu@jichi.ac.jp

SOURCE: Journal of dermatological science, (2001 Oct) Vol. 27, No.

2, pp. 121-9.

Journal code: 9011485. ISSN: 0923-1811.

PUB. COUNTRY: Ireland

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200110

ENTRY DATE: Entered STN: 5 Sep 2001

Last Updated on STN: 29 Oct 2001 Entered Medline: 25 Oct 2001

ABSTRACT:

Ultraviolet B irradiation initiates and promotes skin cancers,
photo -aging, and immune suppression. In order to elucidate
the effect of these processes at the level of gene expression, we used cDNA
microarray technology to examine the effect of ultraviolet B irradiation on 588
cancer-related genes in human keratinocytes at 1, 6, and 24 h post-irradiation
with a mildly cytotoxic dose of ultraviolet B (170 mJ/cm(2)). The viability of

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ABSTRACT:

ENTRY DATE:

As a broad-acting cyclin-dependent kinase inhibitor, **p21**(WAF1) occupies a central position in the cell cycle regulation of self-renewing tissues such as oral mucosa and **skin**. In addition to regulating normal cell cycle progression decisions, **p21**(WAF1) integrates

Last Updated on STN: 31 Mar 2003 Entered Medline: 28 Mar 2003

Entered STN: 27 Dec 2002

=> file pascal biotechno esbiobase toxcenter kosmet scisearch

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L92 45765 SEA (P21 OR P 21)
L93 14267 SEA (WRINKL? OR PHOTOAG? OR SKIN (2A) (AGING OR AGEING))
L94 30 SEA L92 AND L93
L95 11 DUP REM L94 (19 DUPLICATES REMOVED)
L97 1 SEA L95 AND DRUG EFFECT/CT

=> s 197

'CT' IS NOT A VALID FIELD CODE 'CT' IS NOT A VALID FIELD CODE L114 1 L97

=> file home

FILE 'HOME' ENTERED AT 16:51:52 ON 28 APR 2006

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L101	2	AND L7 SEA FILE=CAPLUS ABB=ON PLU=ON L8 AND (P21 OR P 21)
L11	356	SEA FILE=CAPLUS ABB=ON PLU=ON ("FUJII S"/AU OR "FUJII SEISHIRO"/AU)
L12	13	SEA FILE=CAPLUS ABB=ON PLU=ON ("DOTTO P"/AU OR "DOTTO P DEL"/AU OR "DOTTO PAOLA"/AU OR "DOTTO PAOLO"/AU OR "DOTTO PAOLO DEL"/AU)
L13	154	SEA FILE=CAPLUS ABB=ON PLU=ON ("HAN R"/AU OR "HAN R D"/AU OR "HAN R F"/AU OR "HAN R J"/AU OR "HAN R K W"/AU OR "HAN R M"/AU OR "HAN R N N"/AU OR "HAN R P"/AU OR "HAN R Q"/AU OR "HAN R S"/AU OR "HAN R T"/AU OR "HAN R X"/AU OR "HAN R Y"/AU OR "HAN RONG"/AU OR "HAN RONG BI"/AU OR "HAN RONG BIN"/AU OR "HAN RONG DI"/AU OR "HAN RONG DIAN"/AU OR "HAN RONG JIANG"/AU OR "HAN RONG RONG"/AU)
L14	29	SEA FILE=CAPLUS ABB=ON PLU=ON ("BRISSETTE J"/AU OR "BRISSETTE JANICE"/AU OR "BRISSETTE JANICE L"/AU OR "BRISSETTE JANICE LYNN"/AU)
L56	8	SEA FILE=CAPLUS ABB=ON PLU=ON SKIN, DISEASE (L) AGING+OLD/CT
L57	0	SEA FILE=CAPLUS ABB=ON PLU=ON PHOTO AGING/CT
L58	5521	SEA FILE=CAPLUS ABB=ON PLU=ON (SKIN OR PHOTO) (L) (AGING OR AGEING)
L61	6	SEA FILE=CAPLUS ABB=ON PLU=ON (L56 OR L57 OR L58) AND (L11 OR L12 OR L13 OR L14)
L102	1	SEA FILE=CAPLUS ABB=ON PLU=ON L61 AND (P21 OR P 21)

=> s 138,160,188,190,1101,1102 not 115,161

L112 1 (L38 OR L60 OR L88 OR L90 OR L101 OR L102) NOT (L15 OR L61)

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HIGHEST APPLICATION PUBLICATION NUMBER: US2006090232
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REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2006
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L98 612 SEA FILE-USPATFULL ABB=ON PLU=ON (P21 OR P 21)/TI,IT,AB,CLM
L99 5951 SEA FILE-USPATFULL ABB=ON PLU=ON (WRINKL? OR PHOTOAG? OR
SKIN (2A) (AGING OR AGEING))/TI,IT,AB,CLM
L100 1 SEA FILE-USPATFULL ABB=ON PLU=ON L99 AND L98

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L113 1 L99 AND L98

			A11	///DT///// 0 OD GWT// //DT//// 0 OD
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L37	1259	SEA FILE=CAPLUS ABB=ON SIGNAL TRANSDUCT?)	PLU=ON	P21 (L) (PROTEIN KINAS? OR
L38	1	SEA FILE=CAPLUS ABB=ON	PLU=ON	L37 AND L7
L7	11170	SEA FILE=CAPLUS ABB=ON	PLU=ON	(WRINKL? OR SKIN WRINKL? OR
1.5.6	0	WRINK? REDUC?) SEA FILE=CAPLUS ABB=ON	DI II_ON	SKIN, DISEASE (L) AGING+OLD/CT
L56	8	SEA FILE=CAPLUS ABB=ON	PLU=ON	SKIN, DISEASE (L) AGING+OLD/CI
L57		SEA FILE=CAPLUS ABB=ON	PLU=ON	•
L58	5521	SEA FILE=CAPLUS ABB=ON AGEING)	PLU=ON	(SKIN OR PHOTO) (L) (AGING OR
L59	979	SEA FILE=CAPLUS ABB=ON	PLU=ON	(L56 OR L57 OR L58) AND L7
L60		SEA FILE=CAPLUS ABB=ON	PLU=ON	
L1		SEA FILE=CAPLUS ABB=ON	PLU=ON	
L2 L3		SEA FILE=CAPLUS ABB=ON SEA FILE=CAPLUS ABB=ON	PLU=ON PLU=ON	• •
ьз L4		SEA FILE=CAPLUS ABB=ON	PLU=ON	
L5		SEA FILE=CAPLUS ABB=ON	PLU=ON	•
		KINASE OR P21 SIGNAL TR		
L7	11170	SEA FILE=CAPLUS ABB=ON WRINK? REDUC?)	PLU=ON	(WRINKL? OR SKIN WRINKL? OR
L8	25	SEA FILE=CAPLUS ABB=ON	PLU=ON	(L1 OR L2 OR L3 OR L4 OR L5)
		AND L7		
L87		SEA FILE=CAPLUS ABB=ON	PLU=ON	
L87 L88			PLU=ON PLU=ON	
		SEA FILE=CAPLUS ABB=ON		
L88	0	SEA FILE=CAPLUS ABB=ON SEA FILE=CAPLUS ABB=ON	PLU=ON	L87 AND L8
L88	0 658	SEA FILE=CAPLUS ABB=ON		L87 AND L8 P21-ACTIVATED KINASE/CT
L88 L1	0 658 0	SEA FILE=CAPLUS ABB=ON SEA FILE=CAPLUS ABB=ON SEA FILE=CAPLUS ABB=ON	PLU=ON	L87 AND L8 P21-ACTIVATED KINASE/CT PROTEINS (L) P21/CT PROTEINS (L) SIGNALING+OLD/CT
L1 L2 L3 L4	658 0 0 142893	SEA FILE=CAPLUS ABB=ON	PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON	L87 AND L8 P21-ACTIVATED KINASE/CT PROTEINS (L) P21/CT PROTEINS (L) SIGNALING+OLD/CT SIGNAL TRANSDUCTION/CT
L1 L2 L3	658 0 0 142893	SEA FILE=CAPLUS ABB=ON	PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON	P21-ACTIVATED KINASE/CT PROTEINS (L) P21/CT PROTEINS (L) SIGNALING+OLD/CT SIGNAL TRANSDUCTION/CT (P21 OR P(2A)21 OR P21 PROTEIN
L1 L2 L3 L4 L5	658 0 0 142893 88152	SEA FILE=CAPLUS ABB=ON KINASE OR P21 SIGNAL TR	PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON ANSDUCTI	P21-ACTIVATED KINASE/CT PROTEINS (L) P21/CT PROTEINS (L) SIGNALING+OLD/CT SIGNAL TRANSDUCTION/CT (P21 OR P(2A)21 OR P21 PROTEIN ON? OR P21?)
L1 L2 L3 L4	658 0 0 142893 88152	SEA FILE=CAPLUS ABB=ON KINASE OR P21 SIGNAL TR	PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON ANSDUCTI	P21-ACTIVATED KINASE/CT PROTEINS (L) P21/CT PROTEINS (L) SIGNALING+OLD/CT SIGNAL TRANSDUCTION/CT (P21 OR P(2A)21 OR P21 PROTEIN
L1 L2 L3 L4 L5	658 0 0 142893 88152	SEA FILE=CAPLUS ABB=ON KINASE OR P21 SIGNAL TR SEA FILE=CAPLUS ABB=ON WRINK? REDUC?) SEA FILE=CAPLUS ABB=ON	PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON ANSDUCTI	P21-ACTIVATED KINASE/CT PROTEINS (L) P21/CT PROTEINS (L) SIGNALING+OLD/CT SIGNAL TRANSDUCTION/CT (P21 OR P(2A)21 OR P21 PROTEIN ON? OR P21?)
L88 L1 L2 L3 L4 L5 L7	658 0 0 142893 88152 11170	SEA FILE=CAPLUS ABB=ON KINASE OR P21 SIGNAL TR SEA FILE=CAPLUS ABB=ON WRINK? REDUC?) SEA FILE=CAPLUS ABB=ON AND L7	PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON ANSDUCTI PLU=ON PLU=ON	P21-ACTIVATED KINASE/CT PROTEINS (L) P21/CT PROTEINS (L) SIGNALING+OLD/CT SIGNAL TRANSDUCTION/CT (P21 OR P(2A)21 OR P21 PROTEIN ON? OR P21?) (WRINKL? OR SKIN WRINKL? OR
L88 L1 L2 L3 L4 L5	658 0 0 142893 88152 11170 25	SEA FILE=CAPLUS ABB=ON KINASE OR P21 SIGNAL TR SEA FILE=CAPLUS ABB=ON WRINK? REDUC?) SEA FILE=CAPLUS ABB=ON	PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON ANSDUCTI PLU=ON	P21-ACTIVATED KINASE/CT PROTEINS (L) P21/CT PROTEINS (L) SIGNALING+OLD/CT SIGNAL TRANSDUCTION/CT (P21 OR P(2A)21 OR P21 PROTEIN ON? OR P21?) (WRINKL? OR SKIN WRINKL? OR
L88 L1 L2 L3 L4 L5 L7 L8	658 0 0 142893 88152 11170 25	SEA FILE=CAPLUS ABB=ON KINASE OR P21 SIGNAL TR SEA FILE=CAPLUS ABB=ON WRINK? REDUC?) SEA FILE=CAPLUS ABB=ON AND L7 SEA FILE=CAPLUS ABB=ON	PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON ANSDUCTI PLU=ON PLU=ON	P21-ACTIVATED KINASE/CT PROTEINS (L) P21/CT PROTEINS (L) SIGNALING+OLD/CT SIGNAL TRANSDUCTION/CT (P21 OR P(2A)21 OR P21 PROTEIN ON? OR P21?) (WRINKL? OR SKIN WRINKL? OR (L1 OR L2 OR L3 OR L4 OR L5) 9/SC,SX
L88 L1 L2 L3 L4 L5 L7 L8	658 0 0 142893 88152 11170 25	SEA FILE=CAPLUS ABB=ON KINASE OR P21 SIGNAL TR SEA FILE=CAPLUS ABB=ON WRINK? REDUC?) SEA FILE=CAPLUS ABB=ON AND L7 SEA FILE=CAPLUS ABB=ON	PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON ANSDUCTI PLU=ON PLU=ON	P21-ACTIVATED KINASE/CT PROTEINS (L) P21/CT PROTEINS (L) SIGNALING+OLD/CT SIGNAL TRANSDUCTION/CT (P21 OR P(2A)21 OR P21 PROTEIN ON? OR P21?) (WRINKL? OR SKIN WRINKL? OR (L1 OR L2 OR L3 OR L4 OR L5) 9/SC,SX
L88 L1 L2 L3 L4 L5 L7 L8	0 658 0 0 142893 88152 11170 25 734780 0	SEA FILE=CAPLUS ABB=ON KINASE OR P21 SIGNAL TR SEA FILE=CAPLUS ABB=ON WRINK? REDUC?) SEA FILE=CAPLUS ABB=ON AND L7 SEA FILE=CAPLUS ABB=ON	PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON ANSDUCTI PLU=ON PLU=ON	P21-ACTIVATED KINASE/CT PROTEINS (L) P21/CT PROTEINS (L) SIGNALING+OLD/CT SIGNAL TRANSDUCTION/CT (P21 OR P(2A)21 OR P21 PROTEIN ON? OR P21?) (WRINKL? OR SKIN WRINKL? OR (L1 OR L2 OR L3 OR L4 OR L5) 9/SC,SX L8 AND L89
L88 L1 L2 L3 L4 L5 L7 L8 L89 L90 L1 L2	658 0 0 142893 88152 11170 25 734780 0	SEA FILE=CAPLUS ABB=ON KINASE OR P21 SIGNAL TR SEA FILE=CAPLUS ABB=ON WRINK? REDUC?) SEA FILE=CAPLUS ABB=ON AND L7 SEA FILE=CAPLUS ABB=ON SEA FILE=CAPLUS ABB=ON SEA FILE=CAPLUS ABB=ON	PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON	P21-ACTIVATED KINASE/CT PROTEINS (L) P21/CT PROTEINS (L) SIGNALING+OLD/CT SIGNAL TRANSDUCTION/CT (P21 OR P(2A)21 OR P21 PROTEIN ON? OR P21?) (WRINKL? OR SKIN WRINKL? OR (L1 OR L2 OR L3 OR L4 OR L5) 9/SC,SX L8 AND L89 P21-ACTIVATED KINASE/CT PROTEINS (L) P21/CT
L88 L1 L2 L3 L4 L5 L7 L8 L89 L90 L1 L2 L3	658 0 0 142893 88152 11170 25 734780 0	SEA FILE=CAPLUS ABB=ON KINASE OR P21 SIGNAL TR SEA FILE=CAPLUS ABB=ON WRINK? REDUC?) SEA FILE=CAPLUS ABB=ON AND L7 SEA FILE=CAPLUS ABB=ON	PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON	P21-ACTIVATED KINASE/CT PROTEINS (L) P21/CT PROTEINS (L) SIGNALING+OLD/CT SIGNAL TRANSDUCTION/CT (P21 OR P(2A)21 OR P21 PROTEIN ON? OR P21?) (WRINKL? OR SKIN WRINKL? OR (L1 OR L2 OR L3 OR L4 OR L5) 9/SC,SX L8 AND L89 P21-ACTIVATED KINASE/CT PROTEINS (L) P21/CT PROTEINS (L) SIGNALING+OLD/CT
L88 L1 L2 L3 L4 L5 L7 L8 L89 L90 L1 L2 L3 L4	658 0 0 142893 88152 11170 25 734780 0	SEA FILE=CAPLUS ABB=ON KINASE OR P21 SIGNAL TR SEA FILE=CAPLUS ABB=ON WRINK? REDUC?) SEA FILE=CAPLUS ABB=ON AND L7 SEA FILE=CAPLUS ABB=ON	PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON	P21-ACTIVATED KINASE/CT PROTEINS (L) P21/CT PROTEINS (L) SIGNALING+OLD/CT SIGNAL TRANSDUCTION/CT (P21 OR P(2A)21 OR P21 PROTEIN ON? OR P21?) (WRINKL? OR SKIN WRINKL? OR (L1 OR L2 OR L3 OR L4 OR L5) 9/SC,SX L8 AND L89 P21-ACTIVATED KINASE/CT PROTEINS (L) P21/CT PROTEINS (L) SIGNALING+OLD/CT SIGNAL TRANSDUCTION/CT
L88 L1 L2 L3 L4 L5 L7 L8 L89 L90 L1 L2 L3	658 0 0 142893 88152 11170 25 734780 0	SEA FILE=CAPLUS ABB=ON KINASE OR P21 SIGNAL TR SEA FILE=CAPLUS ABB=ON WRINK? REDUC?) SEA FILE=CAPLUS ABB=ON AND L7 SEA FILE=CAPLUS ABB=ON	PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON	P21-ACTIVATED KINASE/CT PROTEINS (L) P21/CT PROTEINS (L) SIGNALING+OLD/CT SIGNAL TRANSDUCTION/CT (P21 OR P(2A)21 OR P21 PROTEIN CON? OR P21?) (WRINKL? OR SKIN WRINKL? OR (L1 OR L2 OR L3 OR L4 OR L5) 9/SC,SX L8 AND L89 P21-ACTIVATED KINASE/CT PROTEINS (L) P21/CT PROTEINS (L) SIGNALING+OLD/CT SIGNAL TRANSDUCTION/CT (P21 OR P(2A)21 OR P21 PROTEIN
L88 L1 L2 L3 L4 L5 L7 L8 L89 L90 L1 L2 L3 L4	658 0 0 142893 88152 11170 25 734780 0 658 0 0 142893 88152	SEA FILE=CAPLUS ABB=ON KINASE OR P21 SIGNAL TR SEA FILE=CAPLUS ABB=ON WRINK? REDUC?) SEA FILE=CAPLUS ABB=ON AND L7 SEA FILE=CAPLUS ABB=ON	PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON	P21-ACTIVATED KINASE/CT PROTEINS (L) P21/CT PROTEINS (L) SIGNALING+OLD/CT SIGNAL TRANSDUCTION/CT (P21 OR P(2A)21 OR P21 PROTEIN CON? OR P21?) (WRINKL? OR SKIN WRINKL? OR (L1 OR L2 OR L3 OR L4 OR L5) 9/SC,SX L8 AND L89 P21-ACTIVATED KINASE/CT PROTEINS (L) P21/CT PROTEINS (L) SIGNALING+OLD/CT SIGNAL TRANSDUCTION/CT (P21 OR P(2A)21 OR P21 PROTEIN
L88 L1 L2 L3 L4 L5 L7 L8 L89 L90 L1 L2 L3 L4 L5	658 0 0 142893 88152 11170 25 734780 0 658 0 0 142893 88152 11170	SEA FILE=CAPLUS ABB=ON KINASE OR P21 SIGNAL TR SEA FILE=CAPLUS ABB=ON WRINK? REDUC?) SEA FILE=CAPLUS ABB=ON AND L7 SEA FILE=CAPLUS ABB=ON	PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON	P21-ACTIVATED KINASE/CT PROTEINS (L) P21/CT PROTEINS (L) SIGNALING+OLD/CT SIGNAL TRANSDUCTION/CT (P21 OR P(2A)21 OR P21 PROTEIN CON? OR P21?) (WRINKL? OR SKIN WRINKL? OR (L1 OR L2 OR L3 OR L4 OR L5) 9/SC,SX L8 AND L89 P21-ACTIVATED KINASE/CT PROTEINS (L) P21/CT PROTEINS (L) SIGNALING+OLD/CT SIGNAL TRANSDUCTION/CT (P21 OR P(2A)21 OR P21 PROTEIN CON? OR P21?)

L110 1 L86 NOT L85

=> file biosis

FILE 'BIOSIS' ENTERED AT 16:51:38 ON 28 APR 2006 Copyright (c) 2006 The Thomson Corporation

FILE COVERS 1969 TO DATE. CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 26 April 2006 (20060426/ED)

=> d que 176

L65	225	SEA FILE=BIOSIS ABB=ON	PLU=ON	P21 PROTEIN/CT
L66	3066	SEA FILE=BIOSIS ABB=ON	PLU=ON	P21/CT
L67	4	SEA FILE=BIOSIS ABB=ON	PLU=ON	SKIN AGING/CT
L68	2118	SEA FILE=BIOSIS ABB=ON	PLU=ON	(SKIN OR PHOTO) (L) (AGING OR
		AGEING)		
L69	2403	SEA FILE=BIOSIS ABB=ON	PLU=ON	(WRINKL? OR SKIN WRINKL? OR
		WRINK? REDUC?)		
L75	4	SEA FILE=BIOSIS ABB=ON	PLU=ON	(L65 OR L66) AND (L67 OR L68
		OR L69)		
L76	4	SEA FILE=BIOSIS ABB=ON	PLU=ON	L75 AND (P21 OR P 21)

=> s 176 not 174

L111 4 L76 NOT L74

=> file caplus

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FILE COVERS 1907 - 28 Apr 2006 VOL 144 ISS 19 FILE LAST UPDATED: 27 Apr 2006 (20060427/ED)

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http://www.cas.org/infopolicy.html

=> d que 138; d que 160; d que 188; d que 190; d que 1101; d que 1102

Gitomer 10664795 => d que 155 2050 SEA FILE=MEDLINE ABB=ON PLU=ON RHO GTP-BINDING PROTEINS/CT L20 171376 SEA FILE=MEDLINE ABB=ON PLU=ON SIGNAL TRANSDUCTION+NT/CT L21 1597 SEA FILE-MEDLINE ABB-ON PLU-ON INTRACELLULAR SIGNALING L22 PEPTIDES AND PROTEINS/CT 27550 SEA FILE=MEDLINE ABB=ON PLU=ON (P21 OR P(2A)21 OR P21 L23 PROTEIN KINASE OR P21 SIGNAL TRANSDUCT?) 2229 SEA FILE=MEDLINE ABB=ON PLU=ON SKIN AGING/CT T.5.1 4153 SEA FILE=MEDLINE ABB=ON PLU=ON (SKIN OR PHOTO) (L) (AGING OR L52 AGEING) 64 SEA FILE=MEDLINE ABB=ON PLU=ON (L51 OR L52) AND (L20 OR L21 L53 OR L22 OR L23) 12 SEA FILE=MEDLINE ABB=ON PLU=ON L53 AND (P21 OR P 21) L54 5 SEA FILE=MEDLINE ABB=ON PLU=ON L54 NOT PY>2002 L55 => s 155 not 127 L109 5 L55 NOT L27 => file wpix FILE 'WPIX' ENTERED AT 16:51:35 ON 28 APR 2006 COPYRIGHT (C) 2006 THE THOMSON CORPORATION <20060426/UP> FILE LAST UPDATED: 26 APR 2006 200627 MOST RECENT DERWENT UPDATE: <200627/DW> DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE >>> FOR A COPY OF THE DERWENT WORLD PATENTS INDEX STN USER GUIDE, PLEASE VISIT: http://www.stn-international.de/training center/patents/stn guide.pdf < >>> FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES, SEE http://scientific.thomson.com/support/patents/coverage/latestupdates/ >>> PLEASE BE AWARE OF THE NEW IPC REFORM IN 2006, SEE http://www.stn-international.de/stndatabases/details/ipc reform.html and http://scientific.thomson.com/media/scpdf/ipcrdwpi.pdf <<< >>> UPCOMING NEW DWPI: EFFECTS ON SCRIPT RUNS - SEE NEWS MESSAGE <<< 'BIX' IS DEFAULT SEARCH FIELD FOR 'WPIX' FILE => d que 186 16 SEA FILE=WPIX ABB=ON PLU=ON P21/BIX (L) SIGNAL TRANSDUCT?/BIX L81

L82
39 SEA FILE=WPIX ABB=ON PLU=ON P21/BIX (L) PROTEIN KINAS?/BIX
L83
951 SEA FILE=WPIX ABB=ON PLU=ON (P21/BIX OR P 21/BIX)
L84
22202 SEA FILE=WPIX ABB=ON PLU=ON (WRINKL?/BIX OR SKIN WRINKL?/BIX
OR WRINK? REDUC?/BIX OR SKIN AGING/BIX OR SKIN AGEING/BIX OR
PHOTO/BIX (L) (AGING/BIX OR AGEING/BIX))
L86
2 SEA FILE=WPIX ABB=ON PLU=ON (L81 OR L82 OR L83) AND L84

=> s 186 not 185

L108 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN 1990:240313 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: 112:240313 Cosmetic skin preparations containing nicorandil TITLE: INVENTOR(S): Nakayama, Taiichi; Fujii, Seishiro; Kitamura, Kenji Shiseido Co., Ltd., Japan PATENT ASSIGNEE(S): Jpn. Kokai Tokkyo Koho, 4 pp. SOURCE: CODEN: JKXXAF DOCUMENT TYPE: Patent LANGUAGE: Japanese FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE _____ --------------_____ JP 02032006 A2 19900201 JP 1988-180228 19880721 PRIORITY APPLN. INFO.: JP 1988-180228 19880721 Entered STN: 23 Jun 1990 Skin prepns. contain N-(2-hydroxyethyl)nicotinamide nitrate AB ester (I) or its salts as an active ingredient. The prepns. prevent aging of the skin and damages caused by suntan, razors, etc. Glycerin 4.0, 1,3-butylene glycol 4.0, EtOH 7.0, poly(oxyethylene) oleyl ether 0.5, I 0.01, and H2O to 100% by weight to give a shaving lotion. ICM A61K007-00 TC ICS A61K007-15; A61K031-44 CC 62-4 (Essential Oils and Cosmetics) 65141-46-0, Nicorandil RL: BIOL (Biological study) (cosmetic skin prepns. containing, for prevention of aging and damaging) => [] => file medline FILE 'MEDLINE' ENTERED AT 16:51:32 ON 28 APR 2006 FILE LAST UPDATED: 27 APR 2006 (20060427/UP). FILE COVERS 1950 TO DATE. On December 11, 2005, the 2006 MeSH terms were loaded. The MEDLINE reload for 2006 is now (26 Feb.) available. For details on the 2006 reload, enter HELP RLOAD at an arrow prompt (=>). See also: http://www.nlm.nih.gov/mesh/ http://www.nlm.nih.gov/pubs/techbull/nd04/nd04 mesh.html http://www.nlm.nih.gov/pubs/techbull/nd05/nd05 med data changes.html http://www.nlm.nih.gov/pubs/techbull/nd05/nd05 2006 MeSH.html OLDMEDLINE is covered back to 1950. MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2006 vocabulary.

Saloni Sharma 04/28/2006

This file contains CAS Registry Numbers for easy and accurate

substance identification.

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halo, lower alkoxy) or II (R2-3 = H, alkyl). I and II have strong retinoic acid-like effects and show reduced cytotoxicity due to rapid in vivo metabolism, and are useful for prevention of skin damages from sunlight and aging. I (R1 = H) (III), prepared from 3-(2,6,6-trimethyl-1-cyclohexen-1-yl)-2-propenoic acid and 4-HOC6H4CO2H, enhanced EGF-dependent proliferation of fibroblast and also showed other skin damage-protecting effects. A cosmetic lotion containing III was formulated. ICM A61K007-48 A61K007-00; A61K031-215; C07C069-608 ICS 62-4 (Essential Oils and Cosmetics) Section cross-reference(s): 1, 63 Aging Cosmetics Skin, disease Sunscreens (skin prepns. containing retinoids for prevention of skin damage from sunburn and aging) Retinoids RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PNU (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (skin prepns. containing retinoids for prevention of skin damage from sunburn and aging) Pharmaceutical dosage forms (topical, skin prepns. containing retinoids for prevention of skin damage from sunburn and aging) 99-96-7, reactions RL: RCT (Reactant); RACT (Reactant or reagent) (esterification with cyclohexenylpropenoic acid derivative; skin prepns. containing retinoids for prevention of skin damage from sunburn and aging) 4951-39-7, 3-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-2-propenoic acid RL: RCT (Reactant); RACT (Reactant or reagent) (esterification with hydroxybenozic acid; skin prepns. containing retinoids for prevention of skin damage from sunburn and aging) 22824-31-3, 5,6,7,8-Tetrahydro-5,5,8,8-tetramethyl-2-naphthol RL: RCT (Reactant); RACT (Reactant or reagent) (esterification with muconic acid; skin prepns. containing retinoids for prevention of skin damage from sunburn and aging) 505-70-4, 2,4-Hexadienedioic acid RL: RCT (Reactant); RACT (Reactant or reagent) (esterification with tetrahydronaphthol derivative; skin prepns. containing retinoids for prevention of skin damage from sunburn and aging) 153233-07-9P RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent) (selective hydrolysis of; skin prepns. containing retinoids for prevention of skin damage from sunburn and aging) 153233-08-0P 153233-09-1P RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PNU (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

Saloni Sharma 04/28/2006

(skin prepns. containing retinoids for prevention of skin

damage from sunburn and aging)

synthase inhibitors to prevent and reduce wrinkles. L-NAME treated mice show a reduction in fine wrinkles compared to untreated control mice which can prevent the formation of wrinkles caused by UVB exposure.

IC ICM A61K007-00

ICS A61K007-42; A61K007-44; A61K031-495

CC 62-4 (Essential Oils and Cosmetics)

Section cross-reference(s): 63

IT Skin, disease

(aging; NOS inhibitors for treatment of wrinkles)

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L108 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1995:677661 CAPLUS

DOCUMENT NUMBER:

123:92914

TITLE:

Preparation of retinoids for preventing skin damages

and skin preparations containing them

INVENTOR (S):

Ehama, Ritsuko; Sakamoto, Okihiko; Horii, Izumi;

Akima, Kazuo; Fujii, Seishiro; Shudo, Koichi

PATENT ASSIGNEE(S):

Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO. D.	ATÉ
JP 07118134	A2	19950509	JP 1992-125625 1	9920417
PRIORITY APPLN. INFO.:			JP 1992-125625 1	9920417
OTHER SOURCE(S):	MARPAT	123:92914		

ED Entered STN: 15 Jul 1995

GI

Me Me
$$CH = CHCO_2$$
 CO_2H Me Me Me Me $CH = CHCO_2$ CO_2H

II

AB The skin prepns. contain retinoids I (R1 = H, lower alkyl, OH,

Saloni Sharma

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WO 2005-US20666
      WO 2005123010
                               Α1
                                      20051229
               AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
               CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
               GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,
               ZA, ZM, ZW
          RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
               MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.:
                                                   US 2004-578799P P 20040610
     Entered STN: 15 Dec 2005
Disclosed is, inter alia, a method of reducing UVB-induced wrinkles in a
ED
AB
      subject, the method that includes: administering to a subject having, or
      at risk for, UVB-induced wrinkle, a composition comprising an agent that
      inhibits ATR mediated signaling. Thus, topical 1.2% caffeine in acetone
      was prepared and applied on the back of UVB irradiated and non-UVB
      irradiated mice. Caffeine was effective in reducing UVB-induced wrinkle
      formation.
      ICM A61K007-42
IC
      ICS
           A61K031-522
INCL 424059000; 514263340
     62-4 (Essential Oils and Cosmetics)
      Skin, disease
IT
          (aging, wrinkles, inhibition of; topical caffeine for
         inhibition of ATR mediated signaling for reducing UVB-induced wrinkles)
L108 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:
                             2002:615365 CAPLUS
                             137:159039
DOCUMENT NUMBER:
                             NOS inhibitors for treatment of wrinkles
TITLE:
                             Fujii, Seishiro; Lerner, Ethan
INVENTOR(S):
PATENT ASSIGNEE(S):
                             The General Hospital Corporation, USA
SOURCE:
                             PCT Int. Appl., 15 pp.
                             CODEN: PIXXD2
                             Patent
DOCUMENT TYPE:
                             English
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                             KIND
                                                    APPLICATION NO.
                                                                                DATE
      PATENT NO.
                                      DATE
      -----
                              ----
                                      -----
                                                    _______
     WO 2002062306
                              A1
                                      20020815
                                                    WO 2002-US2292
                                                                                20020125
          W: JP
          RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
               PT, SE, TR
                                                    US 2002-57247
                                                                                20020125
     US 2002168325
                               Δ1
                                      20021114
                                      20031112
                                                    EP 2002-720854
     EP 1359885
                              A1
                                                                                20020125
          R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
               IE, FI, CY, TR
                                                    JP 2002-562314
                               T2
                                      20040708
                                                                                20020125
      JP 2004520388
                              A1
                                      20031106
                                                    US 2003-406306
     US 2003207844
                                                                                20030403
                                                                            P 20010125
PRIORITY APPLN. INFO.:
                                                    US 2001-264176P
                                                    US 2002-57247
                                                                            A3 20020125
```

AB Methods, compns., and kits, are provided for the use of nitric oxide

ED

Entered STN: 16 Aug 2002

Saloni Sharma 04/28/2006

WO 2002-US2292

W 20020125

Foundation of the University of Central Florida

SOURCE: PCT Int. Appl., 36 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.				KIND DATE			APPLICATION NO.						DATE					
	WO 2005077019					A2 20050825			WO 2005-US3908						20050207				
	WO	WO 2005077019				A3		2006	0216										
		W:	ΑE,	AG,	ΑL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	BY,	ΒZ,	CA,	CH,	
			CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,	
			GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	ΚP,	KR,	ΚZ,	LC,	
			LK,	LR,	LS,	LT,	LU,	ĽV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NA,	NI,	
			NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	
			ΤJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW,	sm
		RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	NΑ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	
			ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	
			EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,	IS,	ΙT,	LT,	LU,	MC,	NL,	PL,	PT,	
			RO,	SE,	SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	
			MR,	NE,	SN,	TD,	TG												
	US	2005	2507	99		A1 20051110 US 2005			2005-52149 20050207										
PRIOR	RITY	APP	LN.	INFO	.:					1	US 2	004-	5421	37P]	P 20	0040	205	
OTHER SOURCE(S):					MAR	PAT	143:	2349	93										

ED Entered STN: 26 Aug 2005

AB Methods, compns., and kits are provided for the use of inhibitors of protease, i.e., caspase or serine protease involved in apoptosis to reduce wrinkles or other skin damage caused by exposure to UVB radiation. The protease inhibitor is administered, e.g., topically in a cosmetic or therapeutic composition Thus, UCF-101, an Omi/HtrA2 serine protease inhibitor was non-irritating to UVB-exposed skin in mice. Inhibition of Omi/HtrA2 serine protease by 1% UCF-101 in DMSO was effective at preventing and reducing UVB-induced wrinkle formation in mice. It was also effective at reducing UVB-induced dilation of blood vessels.

IC ICM A61K

CC 62-4 (Essential Oils and Cosmetics)
Section cross-reference(s): 1, 63

IT Skin, disease

(aging; topical compns. containing protease inhibitors for treatment of UVB-induced skin damage and wrinkles)

L108 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:1308526 CAPLUS

DOCUMENT NUMBER: 144:40401

TITLE: Topical caffeine for inhibition of ATR mediated

signaling for reducing UVB-induced wrinkles

INVENTOR(S): Nghiem, Paul; Fujii, Seishiro

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 13 pp.

Patent

CODEN: USXXCO

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

DOCUMENT TYPE:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005276765	A1	20051215	US 2005-149126	20050609

D05-H09; D05-H12A; D05-H12D5; D05-H14B2; D05-H17A6; D05-H18; D09-E01

AN 2004-295301 [27] WPIX

AB WO2004026249 A UPAB: 20040426

NOVELTY - Screening of wrinkles reducing agent

involves determination of the test agent to increase or induces a component (C1) of the p21 signal transduction

pathway and correlating the ability of the test agent to increase expression, activity or levels of (C1) with the agent's ability to reduce the appearance or formation of wrinkles.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:

- (a) a cosmetic composition comprising an agent that increases or induces p21;
- (b) providing a record involves determination of the test agent to increase or induces **p21**;
- (c) generating the record that correlates the ability of the test agent; and
- (d) a kit comprises a composition comprising an agent that increases or induces (C1); and instructions for using the composition.

ACTIVITY - Dermatological.

MECHANISM OF ACTION - None given.

USE - As a cosmetic for preventing or treating wrinkles, for reducing the appearance or formation of wrinkles on the skin (claimed) and in the manufacture of medicament for preventing skin damage e.g. UVB-induce skin damage.

ADVANTAGE - The **p21 signal transduction** pathway prevents skin damage, reduces the appearance or formation of **wrinkles** on the skin and UVB-induce skin damage.

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TECHNOLOGY FOCUS - PHARMACEUTICALS - Preferred Method: The method further involving evaluating the effect of the agent on UVB-induced wrinkles on the skin of a subject and selecting the test agent that increases expression, activity or levels of (C1). Determination involves providing a cell, tissue or non-human subject comprising an exogenous nucleic acid comprising a regulatory region of (C1) operably linked to a nucleotide sequence encoding a reporter polypeptide and evaluating the ability of the test agent to increase the activity of the reporter polypeptide in the cell, tissue or non-human subject. The test agent is determined to increase or induce (C1) if it increases the activity of the reporter polypeptide.

Preferred Composition: The composition further comprises a cosmetic ingredient.

Preferred Components: The cosmetic ingredient is fragrance or sunscreen. The component of the **p21 signal transduction** pathway is **p21.**

TECHNOLOGY FOCUS - BIOLOGY - Preferred Components: The test agent is animal extract, botanical extract, fungal extract, small molecule, protein, lipid or nucleic acid.

L108 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN

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DOCUMENT NUMBER: 143:234993

TITLE: Protease inhibitors for treatment of wrinkles INVENTOR(S): Fujii, Seishiro; Hirakawa, Satoshi; Detmar,

Michael; Zervos, Antonis S.

PATENT ASSIGNEE(S): The General Hospital Corporation, USA; Research